COMPO-425(Z)
COMPO-435(Z)
COMPO-445(Z)

TENSAI
INTERNATIONAL

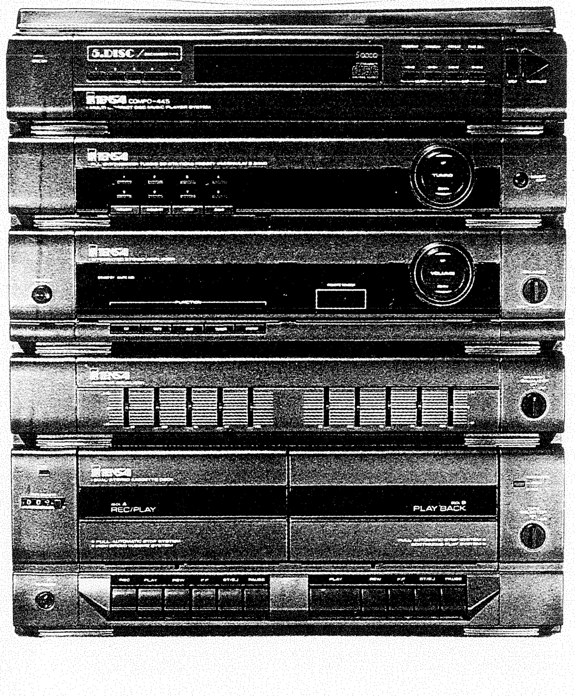
STEREO UPRIGHT SYSTEM WITH CD PLAYER

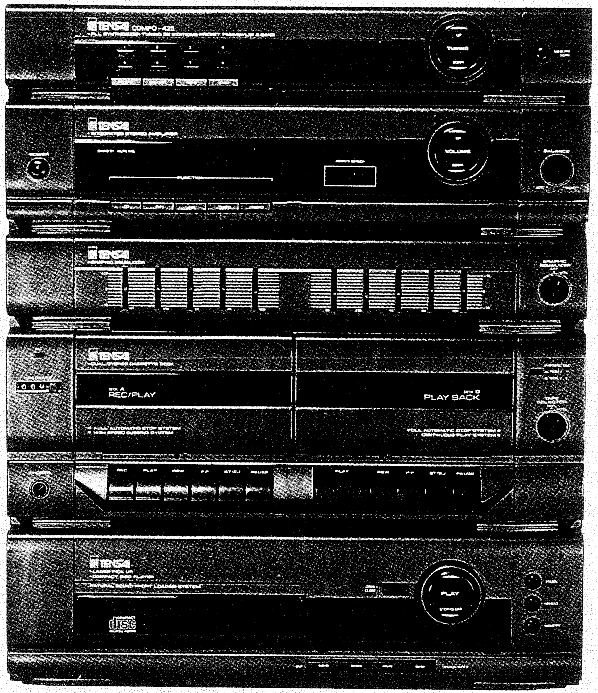
Z VERSION: 115/230v SWITCHABLE AND 2 BAND ONLY FM/MW

COMPO-425(Z): COMPACT DISC PLL SYNTHESIZER AM/FM
DIGIT TUNING TWIN CASSETTE MUSIC CENTER.

COMPO-435(Z): COMPACT DISC PLL TUNING TWIN CASSETTE
DECK TURNTABLE.

COMPO-445(Z): 5 COMPACT DISC CHANGER AND PLL TUNER
TWIN CASSETTE TAPE RECORD MUSIC CENTER.


5 DISC
COMPO-445
TENSAI
REC/PLAY
PLAY BACK


TENSAI COMPO-425
REC/PLAY
PLAY BACK
PLAY

Service Manual

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Specifications	
Power Source	220 Volt/50Hz
Power Consumption	60W (COMPO-425(Z)) 80W(COMPO-445(Z))
Output Power	5W+ 5W RMS(4 ohm) (COMPO-425(Z))
	10W + 10W RMS(4 ohm) (COMPO-445(Z))
Speaker	4 ohm
Dimensions	W360mm × H427mm × D363.5mm (COMPO-425(Z))
	W360mm × H379mm × D363.5mm (COMPO-445(Z))
Weight	10kg(COMPO-445(Z)) 9.2kg(COMPO-425(Z))
Tuner Section	
Frequency Range	MW: 522-1620KHz FM: 87.5 – 108MHz LW 153 – 281 kHz
Intermediate Frequency	MW: 450kHz FM: 10.7 MHz
Sensitivity	MW: 800μV FM: 20μV LW 1000μV
Multiplex Separation	20dB (AT 1kHz)
Tape Speed	1-7/8 IPS (4.75cm P.S.)
Frequency Response	125HZ-8KHz
Wow & Flutter	0.35% WRMS

INSTRUMENT REQUIRED

1. Output Meter (VTVM)
2. If Sweep Generator (AM/FM)
3. Standard Signal Generator (AM/FM STEREO)
4. Audio Frequency Generator
5. Distortion Mater
6. Oscilloscope

GENERAL

1. Signal input must be as low as possible to avoid overload and clipping. (Use highest sensitivity of output indicator,
2. Volume control at maximum, Balance and Tone controls at mechanical center.
3. MW standard modulation is 1,000kHz at 30% amplitude modulation.
4. LW standard modulation is 216kHz at 30% amplitude modulation.
5. FM standard modulation is 98MHz at 25% frequency modulation.
6. Connect 4 ohms load across speaker jack.

AM SECTION

Circuit Alignment	Instrument Connection	Step	Gen. Freq.	Dial Setting	Adjustment
IF	AM SIGNAL GENERATOR Radiated Signal OUTPUT METER (VTVM) Connect Across speaker voice coil	1	450 KHz (Mod.)	Adjust to the lowest frequency	AM IFT **T2** Adjust for Max. Output
		2			Repeat Unitl no further improvement Can be made
OSCILLATOR	Connect Across speaker voice coil. Electronic Voltmeter connect Across between **R43** and Ground	3	no signal generator is used	522 KHz	**T4** (MW OSC Coil) Adjust for 1.2V
		4		Tu 1602KHz	check⩽7.8V
				–	
RF TRACKING	AM SIGNAL GENERATOR Radiated Signal OUTPUT METER (VTVM) Connect Across speaker voice coil.	5	603 KHz (Mod.)	Tune to Signal	**T3** (MW Ant. Coil) Adjust Coil on ferrite core for max. Output
		6	1404 KHz (Mod.)	Tune to Signal	MW Antenna. Trimmer TC2 Adjust for max. Output
		7	–	–	Repeat steps 6 & 7

FM SECTION

Control Setting

Selector Switch . . . . FM

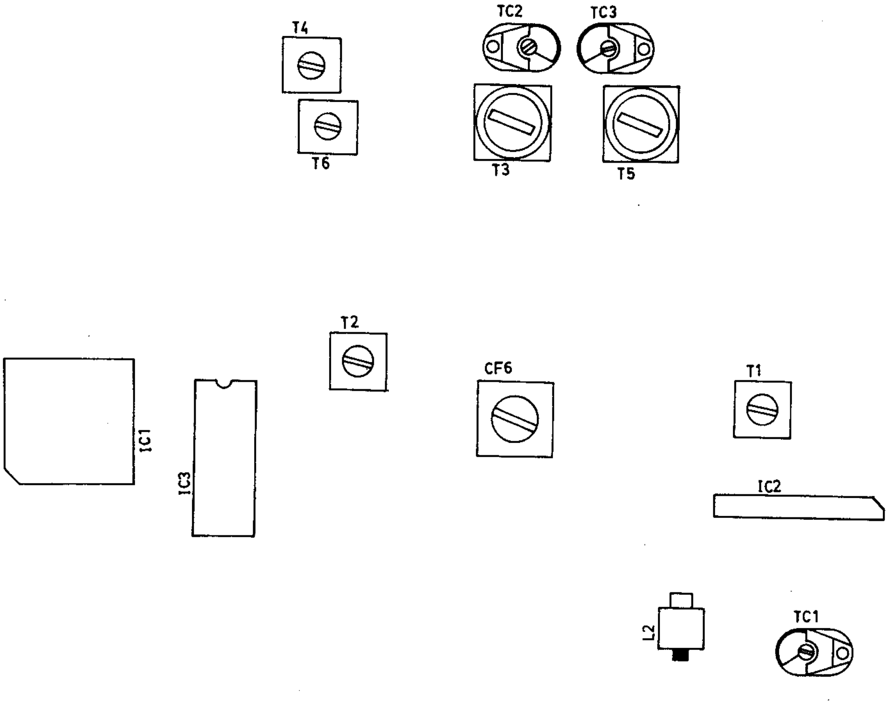
Volume . . . . . Max.

Circuit Alignment	Instrument Connection	Step	Gen. Freq.	Dial Setting	Adjustment
IF	FM IF SWEEP GENERATOR Connect across test point IC1 Pin.8 OSCILLOSCOPE Connect across IC2 Pin14 and ground	1	10.7 MHz (Mod.)	Adjust to the lowest frequency	FM IF T T1. Adjust for max. symmet.
		2	10.7 MHz (Mod.)	Adjust to the lowest frequency	FM IFT T1 Adjust for symmetrical "S" curve entered 10.7 MHz
OSCILLATOR	Connect across speaker. Voice coil. Electronic Voltmeter Connect Across between **R43** and Ground	3	no signal generator is used		
				108 MHz	check ⩽ 7.8V
RF TRACKING	FM SIGNAL GENERATOR Connect L1 OUTPUT METER (VTVM) Connect across speaker Voice coil.	4	90 MHzq (Mod.)	Tune to signal	**L1** (FM RF Coil) Adjust for max. Output
		5	106 MHz (Mod.)	Tune to signal	FM RF trimmer TC1 Adjust for max. Output
		6	–	–	Repeat steps 6 & 7

LW SECTION

Control Setting
Band Selector Slide Switch . . . . LW   Volume . . . . Max.

Circuit Alignment	Instrument Co Connection	Step	Gen. Freq.	Dial Setting	Adjustment
IF	AM SIGNAL GENERATOR Radiated Signal OUTPUT METER (VTVM) Connect Across Speaker voice Coil	1	450 KHz (Mod.)	Adjustment the lowest frequency	IFT T6, Adjust for max. OUtput
		2	"	"	Repeat Until no further improvement can be made
OSCILLATOR	Connect Across Speaker voice coil Electronic Voltmeter connect Across between R43 and Ground	3	no signal generator is used	153KHz	**T6** (LW OSC Coil) Adjust for 1.2V
		4		281 KHz	check ⩽ 5V
		5		–	Repeat steps 3 & 4
RF TRACKING	LW SIGNAL GENERATOR Radiated Signal OUTPUT METER (VTVM) Connect Across Speaker voice coil	6	164 KHz (Mod.)	Tune to Signal	**T5** (LW Ant. Coil) Adjust coil on ferrite core for max. Output
		7	272 KHz (mod.)	Tune to Signal	LW Ant. Trimmer TC3 Adjust for max. Output
		8	–	–	Repeat steps 6 & 7



CD UNIT

NO.	ITEMS	FREQ (Hz)	NOMINAL	LIMIT	UNIT	REM/RKS
1.	Freq. REs.	1K,10K	≤ +1	≤+1.5	dB	
		100,20K	≤ 3	≤ 3	dB	
2.	S/N	1K	≥ 70	≥65	dB	Low Pass Filter Weighted Filter
3.	Dynamic RanGe	1K	≥ 80	≥70	dB	L.P.F. Weighted Filter
4.	Distortion	1K	≤ 0.6	≤1	%	L.P.F.
5.	CH Seperation	1K	≥ 45	≥40	dB	L.P.F.
		10K	≥ 40	≥30	dB	L.P.F.
6.	De-Emphasis Diff	5K 16K	-4.5 -9	-4.5±3 -9±3	dB	
7.	Function	1K(-20dB)		-10±3	dB	MTT-212=0dB
8.	Block Dot		500	300	um	Philips NR-5A
9.					um	Philips NR-5A
10.	Finger Print		HAVE NO NOISE		um	#18 #19 Philips NR-5A
11.	10% Power	1K	5000 (10000)	4000 (7500)	mW	0dB TRACK

CD UNIT

NO.	ITEMS	FREQ (Hz)	NOMINAL	LIMIT	UNIT	REM/RKS
1.	Freq. REs.	1K,10K	≤±1	≤±1.5	dB	
		100,20K	≤ 3	≤ 3	dB	
2.	S/N	1K	≥70	≥65	dB	Low Pass Filter Weighted Filter
3.	Dynamic RanGe	1K	≥ 80	≥70	dB	L.P.F. Weighted Filter
4.	Distortion	1K	≤0.6	≤1	%	L.P.F.
5.	CH Seperation	1K	≥45	≥40	dB	L.P.F.
		10K	≥40	≥30	dB	L.P.F.
6.	De-Emphasis Diff	5K 16K	-4.5 -9	-4.5±3 -9±3	dB	
7.	Function	1K(-20dB)		-10±3	dB	MTT-118=0dB
8.	Block Dot		500	300	um	Philips NR-5A
9.					um	Philips NR-5A
10.	Finger Print		HAVE NO NOISE		um	#18 #19 Philips NR-5A
11.	10% Power	1K	10000	7500	mW	0dB TRACK

1 . BASIC SPECIFICATIONS

Semiconductor laser			Wavelength 790nm
Objective Lens		NA 0.45 WD=2.01mm	Aspherical plastic lens
Detection system	Focusing	Astigmatic method	
	Tracking	3-spot method	
Photo detector		6-divided photo detector	
Focusing actuator	Travel	+1.00mm more than −0.85mm	
	Coil DC resistance	7.0±1Ω	
	Weight of moving part	1.0 g	
Tracking actuator	Travel	±0.4 mm	
	Coil DC resistance	8.0±1Ω	
	Weight of moving part	1.0 g	
Unit weight		45 g	
Operation temperature		−5° C ~ 55° C	
Storage temperature		−20° C ~ 60° C	

2 . PERFORMANCE

2-1 Standard test conditions

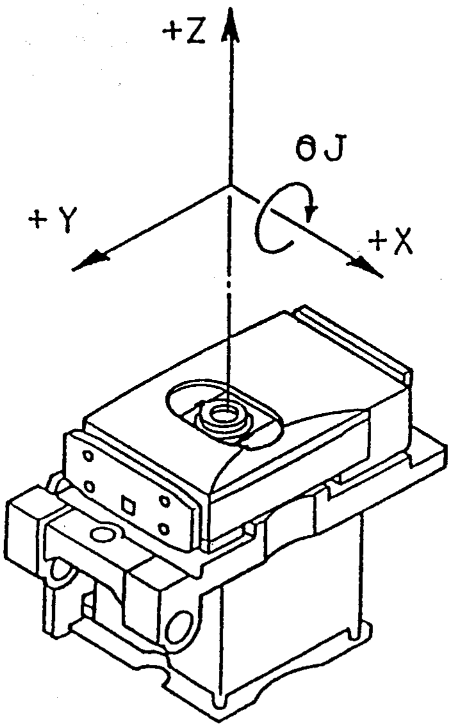
Usually perform the test in an ambience of normal temperature and humidity. If there is a doubt about the judgement, perform the test at a temperature of 20 ~ 25° C and a relative humidity of 60±5%. (RH)

2-2 Standard test posture

Direction of gravity: -Z direction or X direction

2-3 Standard test disc

YEDS-18



2-4 Standard performance

See the following chart.

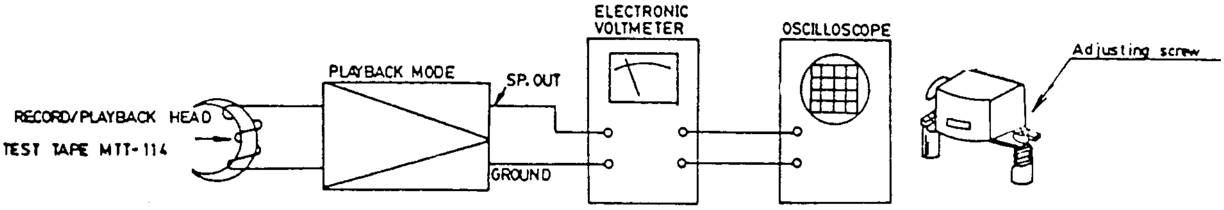
2-4-1 Optical Performance		
Item	Spec	Special Remarks
(1) Objective Lens		
Focal distance f	4.5mm	
Numerical aperature NA	0.45	Single-sheet aspherical plastic lens
Working distance WD	2.01mm	
(2) Objective lens emission light		
Emission light output		
power:Po	0.18mW	Objective lens emission light quantity (average)
Pmax	0.5mW	Objective lens emission light quantity
Emission light		
Wavelenght λ	790±25nm	

TORQUE CHECK AT PLAY FAST FORWARD AND REWIND MODES:

Put a torque meter cassette in the cassette compartment of the set, and see that the measured torque in each mode is normal as follows:

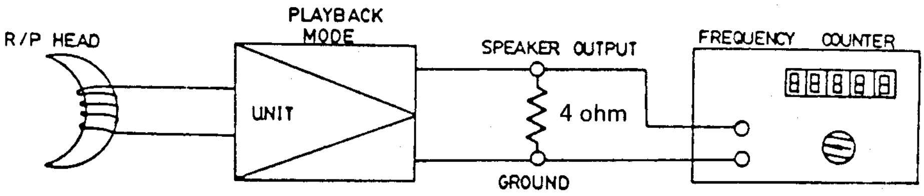
Mode	Torque meter cassette	Measured torque
Playback	TW-2111	35·70 gram-cm
Fast Forward	TW-2231	70-160 gram-cm
Rewind	TW-2231	70-160 gram-cm

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT:


ELECTRONIC VOLTMETER
OSCILLOSCOPE
Adjusting screw
PLAYBACK MODE
SP. OUT
RECORD/PLAYBACK HEAD
TEST TAPE MTT-114
GROUND

1.Connect electronic voltmeter between the Speaker out.
2.Put a test tape (TEAC,MTT-114 10KHz 250pWb/mm -10dB recorder)into the unit and play it.
3.Adjust then the head azimuth adjusting screw so that the electronic voltmeter reads its maximum reading,with no phase difference between the channels.

TAPE SPEED ADJUSTMENT:


R/P HEAD
PLAYBACK MODE
UNIT
SPEAKER OUTPUT
4 ohm
GROUND
FREQUENCY COUNTER
88888

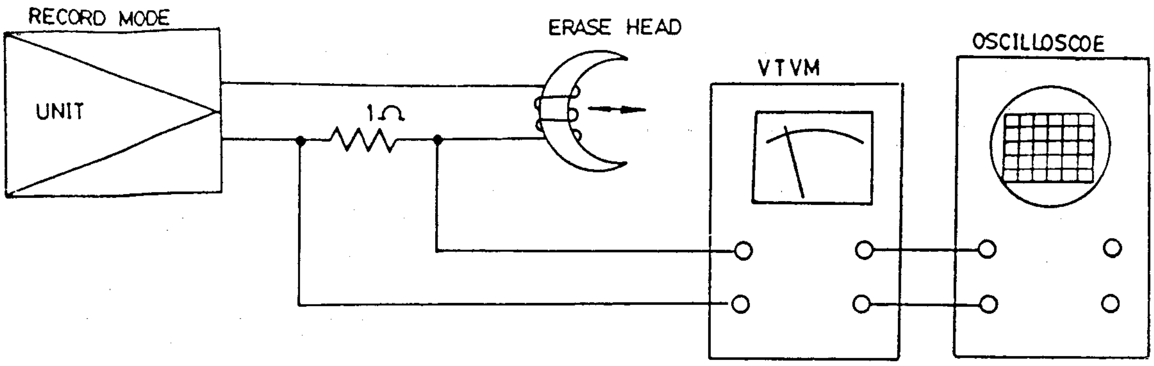
I. NORMAL SPEED ADJUSTMENT

1. Pot standard tape (MTT-111 3KHz) into tape 1 deck, then push play button, (play it).
2. Adjust variable resistor SR301 let the frequency counter display 2940Hz to 3060Hz.

II. HIGH SPEED CHECK

1. Put standard tape (MTT-111 3KHz) into tape 1 deck, then play it.
2. Put the speed switch at high position, function switch at tape position, tape A deck at REC function.
3. Check: frequency counter display 4760Hz to 4860Hz.

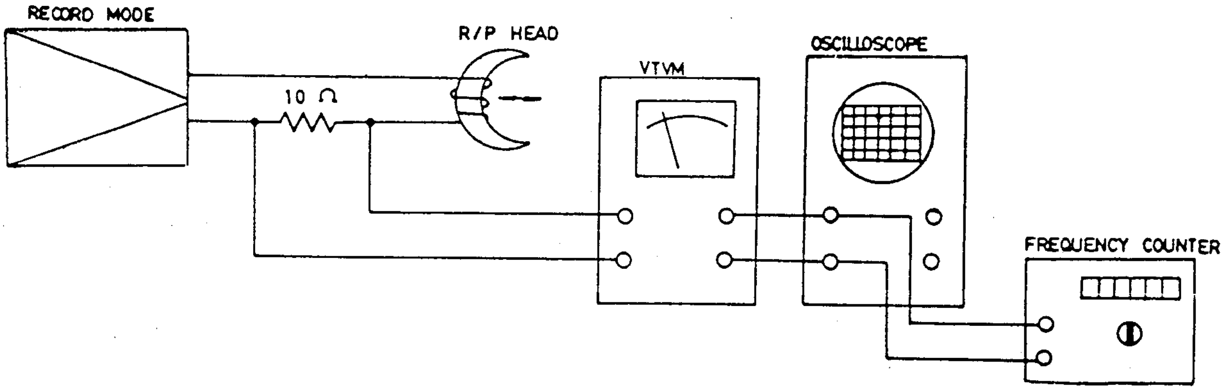
ERASE CURRENT CHECK OF RECORD AMPLIFIER


RECORD MODE
UNIT
1Ω
ERASE HEAD
VTVM
OSCILLOSCOE

1. Connect electronic voltmeter, across a resistor R(1 Ohm).
2. Place the unit in record mode, and make sure the electronic voltmeter is reading more than 50mV.

NOTE: Before we test this step, we must additional one resistor into the test circuit, same as above.

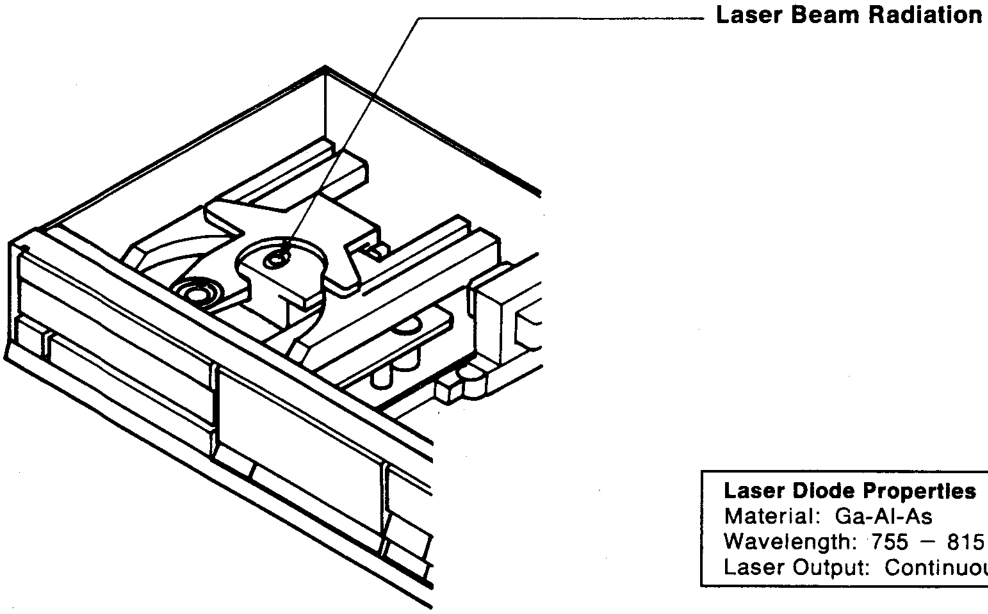
BIAS CURRENT ADJUSTMENT/BIAS OSCILLATION FREQUENCY CHECK OF RECORD AMPLIFIER


RECORD MODE
R/P HEAD
10 Ω
VTVM
OSCILLOSCOPE
FREQUENCY COUNTER

1. Connect electronic Voltmeter, across a resistor (10 ohms)
2. Connect an oscilloscope and a frequency counter to the output terminal of electronic voltmeter.
3. Place the unit in record mode.
4. Make sure the bias oscillator frequency is 53 KHz.
5. Make sure the electronic voltmeter is reading more than 3.8mv . (NOR.)

MODE: CDKM87CP

LASER BEAM RADIATION SPOT


Laser Beam Radiation

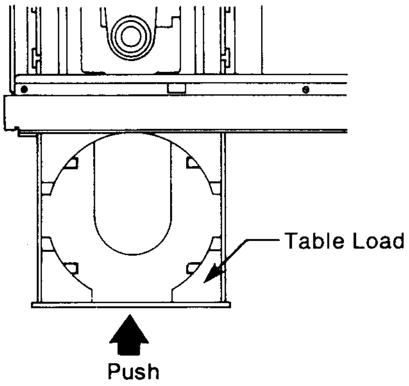
Laser Diode Properties
Material: Ga-Al-As
Wavelength: 755 – 815 nm (25°C)
Laser Output: Continuous Wave max.0.5 mW

MODE: CDKM87CP

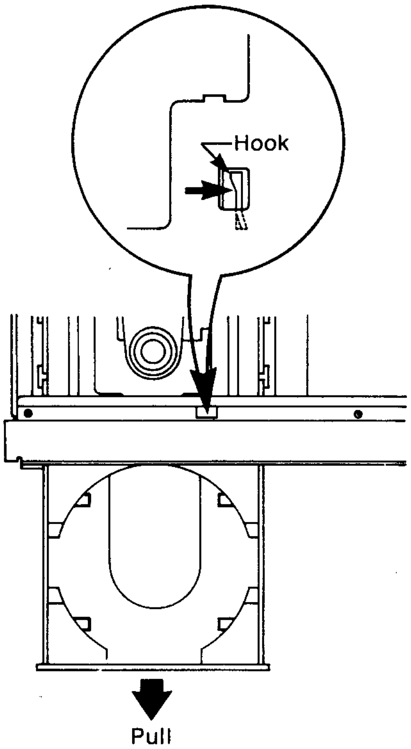
DISASSEMBLY PROCEDURES

REMOVING THE DISC TRAY

1. Apply Power Switch to the set and press the OPEN/CLOSE button to open the table load.
2. Apply OFF the Power Switch while the table load is open, and push the table load back in by hand to close it.

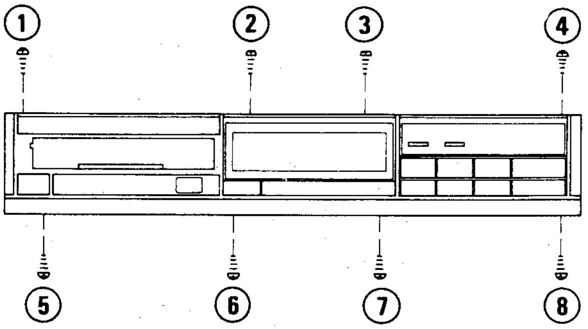


3. Pull out the table load by hand to open it again. The table load will disengage easily and come out smoothly.
4. Now remove the table load from the cabinet while pressing the tab in the direction of the arrow in the diagram below.

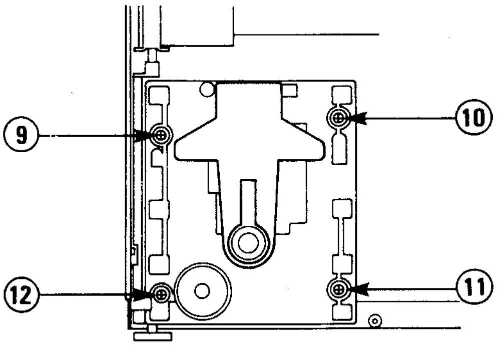


REMOVING THE MECHANISM

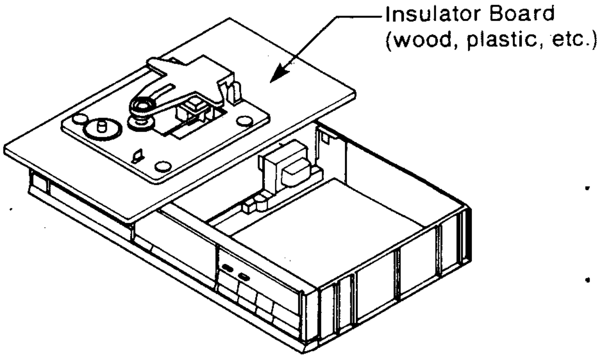
1. Take out the eighth screws (1 ~ 8 in the diagram below with which the Cabinet Front is mounted in place and remove the Cabinet Front.



2. Take out the four screws (9 ~ 12 in the diagram below with which the mechanism is mounted in place and remove the mechanism.



- The mechanism should be removed with the leac wires still attached, and then placed on a wooden o plastic sheet as shown below to adjust the diffractio grating.



ADJUSTMENT PROCEDURES

BEFORE CHECKING OR ADJUSTING CD PLAYER

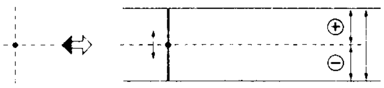
1. Procedures for all adjustments for the CD player from start to finish are described below.
2. The pick-up does not have to be adjusted if everything has been checked and no problems were found.

CHECKING FOCUS ERROR SIGNAL

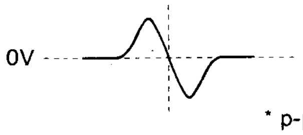
The effectiveness of the pick-up is determined by checking its focus error signal. This must be checked before any repairs are performed on the CD player.

1. Apply Power Switch to the set and press the STOP button.
2. Cut Main P.C.Board jumper cable J223 and connect an oscilloscope between P202 left terminal and the **GND.** (Set the time at 0.5Sec/DIV.)
3. Press the OPEN/CLOSE button, place the test disc on the table load, and then press the OPEN/CLOSE button once again.
4. Once the disc is set, a waveform like that shown in the illustration below will be repeated three times. Check that the p-p voltage of this waveform is the same above and below the horizontal axis at 3V.

Repeated three times



(Measured with a Memory Scope)



* p-p voltage of 3V
* + and − voltage roughly same

5. Press the OPEN/CLOSE button repeatedly to pull out and insert the disc until the waveform appears each time the disc is inserted and removed.
6. If the results of the above procedure are not satisfactory, the pick-up is damaged.
7. After completing checks of the focus error signal solder the jumper line (J223) back in place.

FREE RUN FREQUENCY ADJUSTMENT

1. Connect the frequency counter to VCO test terminal (CN11) **PCK** test pin and to **GND.** (Use a 10:1 probe.)
2. Short the test point **TP DSP OFF** pin to **GND.**
3. Apply Power Switch to the set and press the STOP button.
4. Adjust the OSC coil T202 using a plastic screwdriver until the frequency counter indicator reads 4.3218MHz.

SETTING OF INITIAL POSITION OF VOLUME

1. Set the variable resistors to the initial positions listed below:

P202 (FOCUS GAIN)	Mechanical Center
P203 (E/F BALANCE)	Mechanical Center
P204 (TRACKING GAIN)	Mechanical Center
P205 (TRACKING OFFSET)	Mechanical Center
P206 (KICK GAIN)	Mechanical Center

FOCUS OFFSET ADJUSTMENT

1. Apply Power Switch to the set and press the STOP button.
2. Connect a DC Voltmeter to the test terminal (CN9) **F** (focus coil) pin and short the focus test terminal (CN10) **FOF** pin to **GND.**
3. In this condition check that the DC Voltmeter indicator is in the range −0.7V ~ −1.1V.

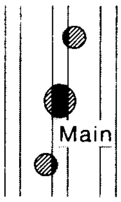
TRACKING OFFSET ADJUSTMENT

1. Apply Power Switch to the set and press the STOP button.
2. Connect a DC Voltmeter to the test terminal (CN9) **T** (tracking coil) pin and short the focus test terminal **TOF** pin to **GND.**
3. In this condition check that the DC Voltmeter indicator is in the range 50mV±50mV, and adjust P205 if it is not.

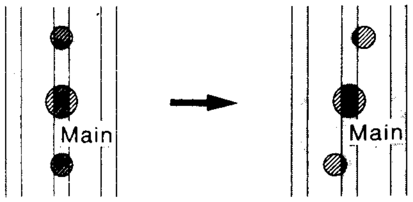
NOTE:
Perform this adjustment once again after adjusting the E/F BALANCE and TRACKING GAIN signals.

DIFFRACTION GRID ADJUSTMENT

This set uses a three-beam laser pick-up system. Adjusting the diffraction grid means adjustment so that beams E and F are in position with respect to the main beam as shown in the diagram below on the bit streams.



The adjustment procedure involves arranging the three beams in a straight line along the same bit stream and then adjusting them to specified positions.



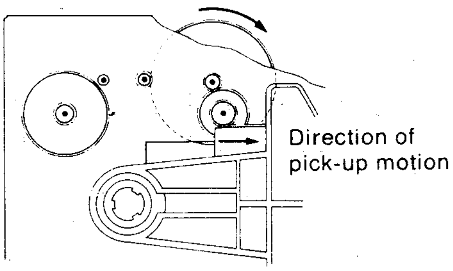
The adjustment steps are detailed below. These are very fine adjustments so great care should be exercised in this.

DIFFRACTION GRID ADJUSTMENT

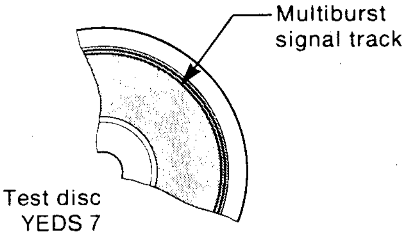
1. Apply Power Switch to the set and press the STOP button.
2. Short tester terminal (CN9) microprocessor **TEST** pin to the **TEST** pin, and then short test terminal (CN12) **TOFF** pin to **GND** to turn the tracking servo OFF.
3. In this state, connect the **E**-beam output of test terminal (CN12) to Channel 1 of the oscilloscope and **F**-beam output of test terminal (CN12) to Channel 2, and now observe the lissajous waveform on the oscilloscope.

ADJUSTMENT PROCEDURES (Continued)

4. Place the test disc YEDS7 on the table load, and press the PLAY button.
5. When the disc begins to rotate a waveform will appear on the oscilloscope. While observing this waveform, turn the gears in the direction of the arrow by hand to send the pick-up to the outer edge.



6. When the pick-up approaches the outer edge, the waveform on the oscilloscope will suddenly disappear, and if it is now pushed further outwards there will be points at which waveforms will appear again. These locations are the multiburst signal storage locations. If the disc rotates at high speed at this time, perform this step once again.



7. Set the oscilloscope to X-Y operation to bring up the waveforms. Insert the adjustment tool in the diffraction grating adjustment hole on the pick-up, and rotate the adjustment tool to right and left. The waveform should be almost a straight line with a phase difference of 0° as shown in Fig. 1 below. This indicates that the beams are arranged in one straight line. The waveform in Fig. 2 indicates that the beams are not arranged along the same stream.

NOTE:
It is important to turn the adjustment tool only a little at a time. If it is rotated too far, the beams will be pushed over into neighboring streams.

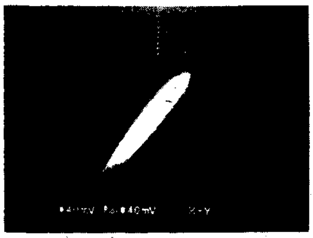


Fig. 1

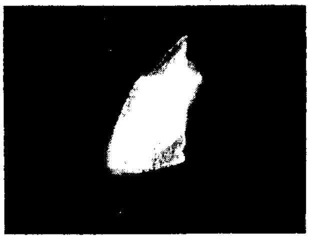
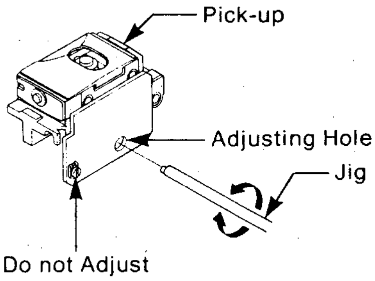


Fig. 2



8. Next, when the waveform in Fig. 1 is obtained, turn the adjustment tool clockwise from that position at which the waveform in Fig. 1 appeared and adjust so that the waveform is a straight line with a phase difference of 180°. (See Fig. 3)

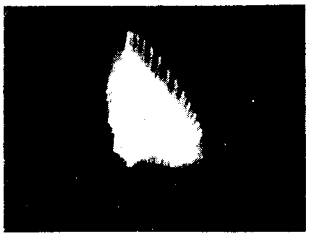


Fig. 3

9. Once the state indicated by the waveform in Fig. 3 is obtained, hold the STOP button down temporarily, and remove the connection between tester terminal (CN9) microprocessor **TEST** pin and the **TEST** pin as well as that between test terminal (CN12) **TOFF** pin and **GND.**
10. Next, press the PLAY button, and set the oscilloscope in the DUAL MODE so that both E and F outputs can be seen. Set the DISPLAY TIME to 5µs. Now, adjustment is complete if the waveforms shown below in Fig. 4 (Channel 1 trigger) are obtained.

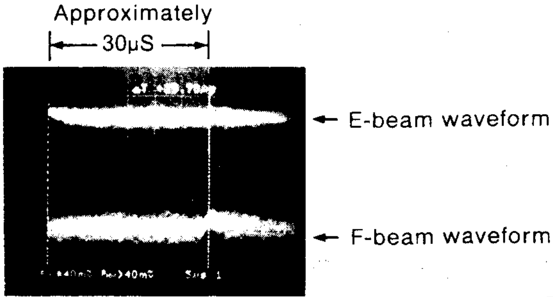


Fig. 4

NOTE:
Diffraction grating adjustment is performed for a single pick-up, so if the following checks are performed adjustment is unnecessary.

a. PLAY the fourth item on the test disc (Modern Wave II CA35-1045, Toshiba-EMI), turn the tracking servo OFF, and check that the waveform is linear with a phase difference of 180°.

b. Next, apply tracking servo, and if the waveforms shown in Fig. 4 are obtained then adjustment is unnecessary.

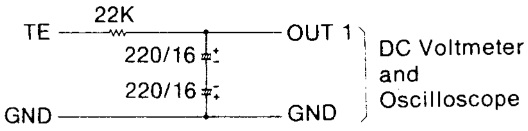
E/F BALANCE ADJUSTMENT

1. Place the test disc (Modern Wave II) on the table load, and play the fourth item on the disc. Short the test terminal (CN9) microprocessor **TEST** pin to the **TEST** pin, and

ADJUSTMENT PROCEDURES (Continued)

test terminal (CN12) **TOFF** pin to **GND** to turn tracking servo OFF.

2. Connect a DC Voltmeter and an oscilloscope via the low-pass filter like that shown in the illustration below to the test terminal (CN12) **TE** (tracking error) pin.


TE
22K
220/16
220/16
GND
OUT 1
GND
DC Voltmeter and Oscilloscope

Measurement circuit

3. Adjust P203 so that the DC Voltmeter reading is minimum (oscilloscope waveform is symmetric to + and − about the zero level).

CONFIRMING JITTER

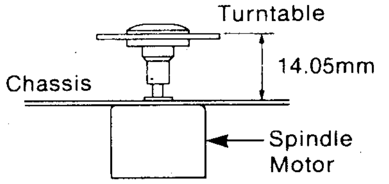
If no jitter counter is available, this check does not have to be have to be performed.

1. PLAY the fourth item on the test disc (Modern Wave Ⅱ).
2. Connect an oscilloscope to the test terminal (CN10) **HF** pin, and check that its level is in the range 1.8Vp-p ~ 3.3Vp-p.
3. Connect a jitter counter to test terminal (CN11) **EFM** pin, and check that the 3T jitter value is less than 20ns. (Window width: 600ns ~ 850ns, Set Level: 2.5V)
4. Now PLAY the tenth item on the test disc and check that the jitter value is less than 20ns again.

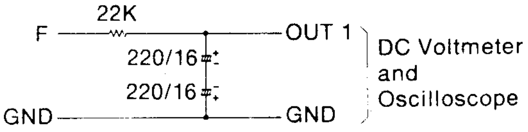
ADJUSTMENT OF TURNTABLE HEIGHT

This adjustment must be performed when the Spindle Motor is replaced.

1. The turntable should be mounted so that its upper surface is 14.05mm ±0.1mm above the surface of the chassis.


Turntable
Chassis
14.05mm
Spindle Motor

2. Place the test disc (Modern Wave Ⅱ) on the turntable.
3. Connect a DC Voltmeter and an oscilloscope via the low-pass filter shown below to test terminal (CN9) **F** (focus coil) pin.


F
22K
220/16
220/16
GND
OUT 1
GND
DC Voltmeter and Oscilloscope

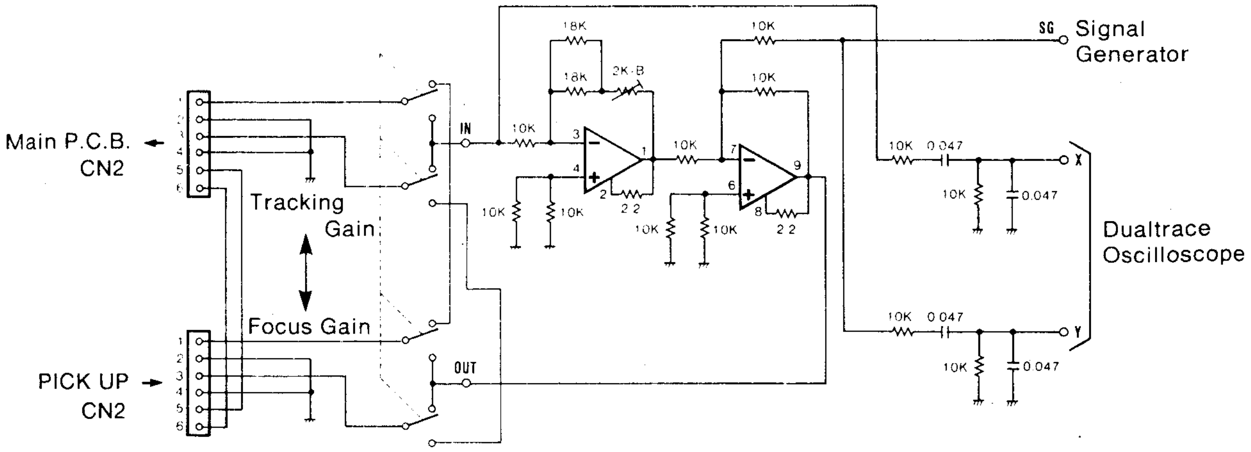
Measurement circuit

4. Apply Power Switch to the set and PLAY the first item on the disc.
5. If the DC Voltmeter reading is not in the ranges 0V±0.2V for inner tracks and 0V±0.35V for outer tracks, then the turntable height must be readjusted. Raise the turntable higher if the DC Voltmeter indicator is on the plus (+) side, and lower it if it is on the minus (−) side.
(With this circuit 1V represents movement of approximately 0.55mm ~ 0.65mm.)

ADJUSTMENT OF FOCUS/TRACKING GAIN

The measurement circuit diagrammed below must be used in order to adjust focus gain and tracking gain correctly.

1. Use IC TA7256P or an equivalent product.
2. Short the interval between **IN** and **SG**, apply 1kHz, 1Vp-p from **SG**, and adjust variable resistor 2kΩ-B so that the **OUT** output is minimum.


SG
Signal Generator
Main P.C.B.
CN2
Tracking Gain
Focus Gain
PICK UP
CN2
IN
OUT
18K
18K
2K-B
10K
10K
10K
10K
10K
10K
10K
10K
2.2
2.2
0.047
0.047
0.047
0.047
X
Y
Dualtrace Oscilloscope

Measurement circuit

COMPO-425(Z)/435(Z)

MODEL: CDKM87CP

ADJUSTMENT PROCEDURES (Continued)

FOCUS GAIN ADJUSTMENT

1. Apply P202 to the center position, and place the test disc (Modern Wave Ⅱ) on the table load.
2. Connect the measurement tool described in the last section to focus coil pin (CN2).
3. Apply Power Switch to the set and PLAY the first item on the test disc. Now apply a signal of 900Hz and 0.5Vp-p from the signal generator to the measurement circuit.
4. Set the oscilloscope to X-Y operation, and while observing the lissajous waveform adjust P202 to the point where the phase difference is 90° as shown in Fig. 5 below.

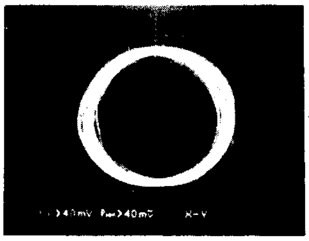


Fig. 5

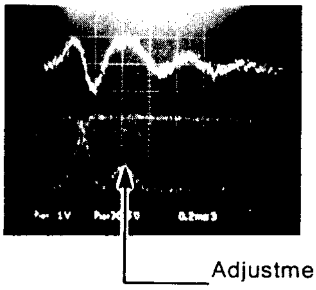
TRACKING GAIN ADJUSTMENT

1. Apply P204 to the center position, and place the test disc (Modern Wave Ⅱ) on the table load.
2. Connect the measurement tool described in the last section to the tracking coil pin CN2.
3. Apply Power Switch to the set and PLAY the first item on the test disc. Now apply a signal of 1350Hz and 0.5Vp-p from the signal generator to the measurement circuit.
4. Set the oscilloscope to X-Y operation, and while observing the lissajous waveform adjust P204 to the point where the phase difference is 90° as shown in Fig. 5 above.

NOTE:
If these two adjustments are performed, the TRACKING OFFSET must also be adjusted.

KICK GAIN ADJUSTMENT

1. Place the test disc (Modern Wave Ⅱ) on the table load.
2. Set the oscilloscope to NORMAL TRIG., set the EXT. TRIG. pin to external trigger, and input the trigger from test terminal (CN11) **TRH** pin to the oscilloscope.
3. Next connect test terminal (CN10) **HF** pin to Channel 1 of the oscilloscope, and connect test terminal (CN12) **TE** pin to Channel 2.
4. Apply Power Switch to the set and PLAY the first item on the test disc, and the press the PAUSE button. Now observe the waveforms for **HF** and **TE** with triggers applied from test terminal (CN11) **TRH** pin. At this point, adjust P206 so that a kick pulse waveform of about 1 to 1.5 tracks as shown in Fig. 6 below is obtained.



← Tracking Error Out

← HF waveform

Adjustment must be performed so curve section in Fig. 6 appears.

Fig. 6

ACCESS OPERATION CHECK

1. Vary the FREE RUN FREQUENCY from a center value of 4.3218MHz to ±50kHz (4.2700MHz ~ 4.3700MHz). and have the pick-up search from the track closest to the center to the outermost track and then back into the track nearest the center, to check that operation is stable.

NOTE:
After this adjustment is completed, be sure to adjust back to 4.3218MHz.

IC VOLTAGES

SYMBOL No.	DEVICE	IC PIN NUMBERS DC VOLTAGES																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC201	LA9200NM	0V	0V	0.3V	0V	0V	0V	0V	0V	0V	0V	0.6V	0.6V	0V	4.9V	4.4V	4.3V	4.2V	4.2V	5.6V	2.4V	5.0V	2.7V	2.3V	2.3V
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		0V	2.4V	0V	2.5V	2.4V	0V	0V	0.6V	0.6V	0V	0.2V	0V	0V	10.0V	4.5V	5.9V	0V	0V	5.6V	0V	0V	0V	0V	0V

SYMBOL No.	DEVICE	IC PIN NUMBERS DC VOLTAGES																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC202	LC7860N	0V	2.6V	2.6V	2.4V	0V	2.4V	2.2V	2.7V	0V	5.0V	0.8V	0V	0.2V	0.2V	4.2V	4.2V	4.3V	0V	2.7V	4.9V	0V	0.6V	0.6V	0V
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		0V	0V	1.1V	0V	5.0V	5.0V	5.0V	0V	5.0V	5.0V	0V	0V	5.0V	0V	0V	5.0V	5.0V	5.0V	0V	0V	5.0V	5.0V	5.0V	5.0V
		49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
		0V	5.0V	5.0V	0V	0.8V	0.8V	0.8V	0V	2.4V	2.4V	2.4V	2.4V	2.4V	0.6V	0.6V	0.6V	0V	5.0V	0V	0.7V	0V	0V	0V	5.0V
		73	74	75	76	77	78	79	80																
		5.0V	0V	5.0V	0V	0V	0V	0V	5.0V																

SYMBOL No.	DEVICE	IC PIN NUMBERS DC VOLTAGES																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC206	M50930	0V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	1.6V	3.2V	4.9V	5.0V	0.2V	0V	5.0V	0V	0V	0V	0V
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		0V	0V	0.6V	0V	5.0V	2.2V	1.9V	0V	5.0V	5.0V	5.0V	5.0V	5.0V	5.0V	5.0V	4.9V	0V	0V	4.9V	4.9V	0V	0V	4.7V	4.8V
		49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
		4.9V	4.9V	0V	0V	4.9V	4.8V	5.0V	0V	2.4V	2.4V	2.4V	2.4V	0V	2.4V	2.4V	2.4V	0.8V	2.4V	0.8V	2.4V	2.4V	2.4V	2.4V	2.4V
		73	74	75	76	77	78	79	80																
		0V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V	2.4V																

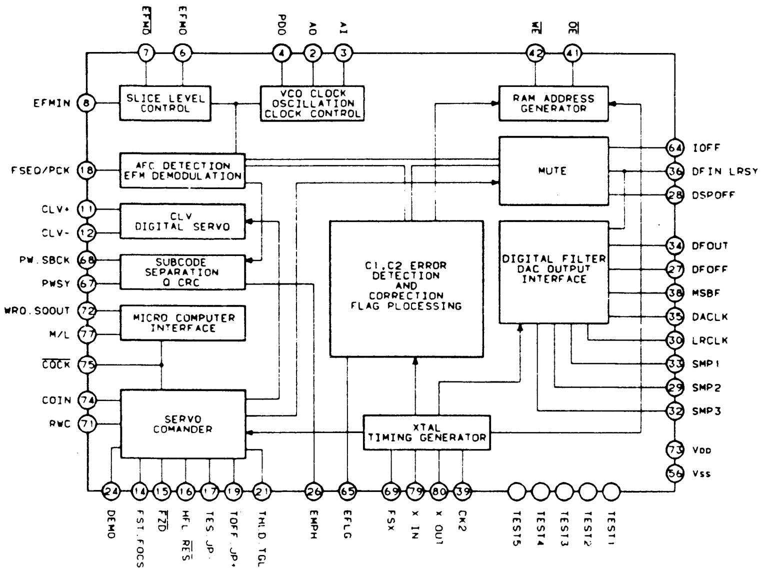
SYMBOL No.	DEVICE	IC PIN NUMBERS DC VOLTAGES																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC203	LC7880	2.6V	5.2V	0V	5.2V	5.0V	5.0V	5.0V	0V	0V	5.2V	2.5V	0V	0V	0V	0V	0V	0V	3.5V	0V	2.6V				
IC204	FA5205P	0V	0V	0V	13.1V	13.7V	-13.7V	0V	0V	0V	12.7V	0V	0V	0V	12.7V	13.7V	13.7V	0.6V	0V	0V	12.7V				
IC205	LC3517AS	5.0V	5.0V	5.0V	5.0V	0V	5.0V	5.0V	0V	0.8V	0.8V	0.8V	0V	2.4V	2.4V	2.4V	2.4V	2.4V	0V	5.0V	5.0V	5.0V	0V	0V	5.0V
IC207	LA6462S	5.9V	2.6V	2.6V	2.6V	5.0V	2.6V	2.6V	2.6V	5.9V															
IC208	LA6462S	5.9V	0V	0V	0V	5.0V	0V	0V	0V	5.9V															
IC209	TC9149P	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	4.9V	2.3V	4.9V								
IC210	TC4069	0V	4.9V	0V	4.9V	0V	4.9V	0V	4.9V	0V	4.9V	0V	4.9V	0V	4.9V										
IC211	TA78L006	12.6V	5.9V	0V																					
IC212	L78M05	12.5V	0V	5.0V																					
IC213	TA79L006	0V	-6.0V	-13.4V																					

COMPO-425(Z)/435(Z)

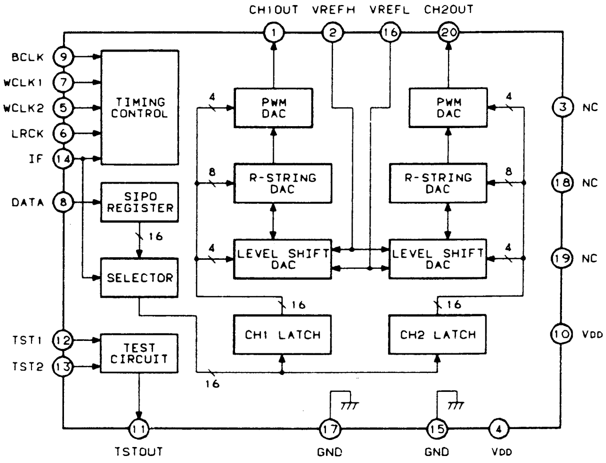
MODEL: CDKM87CP

CD INTEGRATED CIRCUIT BLOCK DIAGRAM

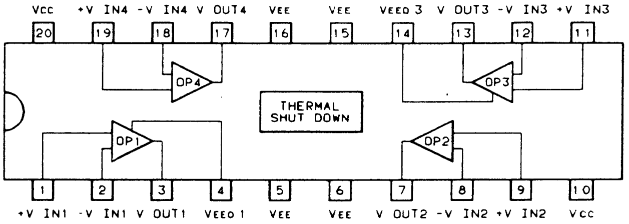
LC 7860N BLOCK DIAGRAM


EFMO
EFMO
PDO
A0
A1
WE
OE
EFMIN
FSEO/PCK
CLV+
CLV-
PW.SBCK
PWSY
WRQ.SQOUT
M/L
COCK
COIN
RWC
SLICE LEVEL CONTROL
VCO CLOCK OSCILLATION CLOCK CONTROL
RAM ADDRESS GENERATOR
AFC DETECTION EFM DEMODULATION
MUTE
CLV DIGITAL SERVO
SUBCODE SEPARATION Q CRC
C1,C2 ERROR DETECTION AND CORRECTION FLAG PLOCESSING
DIGITAL FILTER DAC OUTPUT INTERFACE
MICRO COMPUTER INTERFACE
SERVO COMANDER
XTAL TIMING GENERATOR
IOFF
DFIN LRSY
DSPOFF
DFOUT
DFOFF
MSBF
DACLK
LRCLK
SMP1
SMP2
SMP3
VDD
VSS
DEMO
FST.FOCS
FZD
HFL RES
TES JP-
TOFF JP+
THLD TGL
EMPH
EFLG
FSX
X IN
X OUT
CK2
TEST5
TEST4
TEST3
TEST2
TEST1

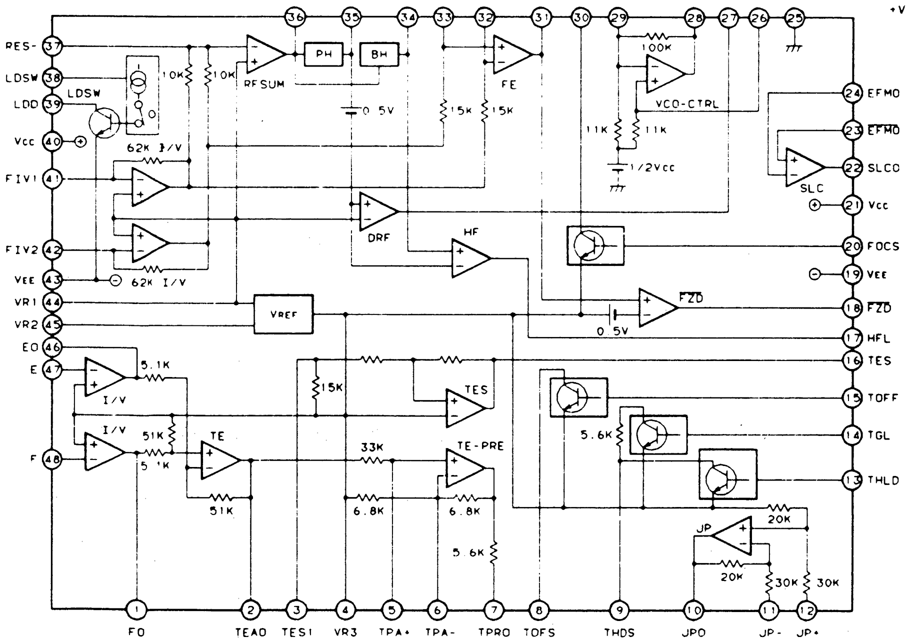
LC 7880 BLOCK DIAGRAM


CH1OUT
VREFH
VREFL
CH2OUT
BCLK
WCLK1
WCLK2
LRCK
IF
DATA
TST1
TST2
TIMING CONTROL
SIPO REGISTER
SELECTOR
TEST CIRCUIT
PWM DAC
R-STRING DAC
LEVEL SHIFT DAC
CH1 LATCH
CH2 LATCH
16
8
4
NC
NC
NC
VDD
TSTOUT
GND
GND
VDD

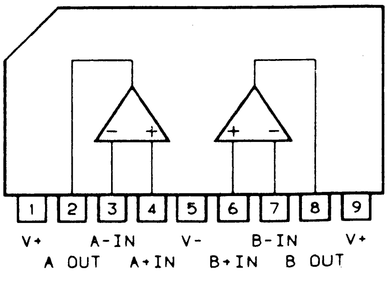
FA 5205P BLOCK DIAGRAM


VCC
+V IN4
-V IN4
V OUT4
VEE
VEE
VEEO 3
V OUT3
-V IN3
+V IN3
OP4
OP3
THERMAL SHUT DOWN
OP1
OP2
+V IN1
-V IN1
V OUT1
VEEO 1
VEE
VEE
V OUT2
-V IN2
+V IN2
VCC

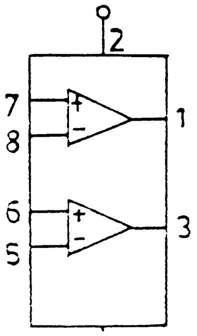
LA 9200NM BLOCK DIAGRAM


RFSM
PHLD
BHLD
FEA+
FEA-
FEAO
FSW
VCO-
VCOC
DRF
PDO
GND
RES-
LDSW
LDD
Vcc
FIV1
FIV2
VEE
VR1
VR2
EO
E
F
RFSUM
PH
BH
FE
100K
VCO-CTRL
10K
10K
0.5V
15K
15K
11K
11K
1/2Vcc
62K I/V
62K I/V
DRF
HF
SLC
VREF
FZD
0.5V
5.1K
I/V
I/V
51K
5.1K
TE
51K
15K
TES
33K
TE-PRE
6.8K
6.8K
5.6K
5.6K
JP
20K
20K
30K
30K
EFMO
EFMO
SLCO
Vcc
FOCS
VEE
FZD
HFL
TES
TOFF
TGL
THLD
FO
TEAO
TES1
VR3
TPA+
TPA-
TPRO
TOFS
THDS
JPO
JP-
JP+

LA 6462S BLOCK DIAGRAM


1
2
3
4
5
6
7
8
9
V+
A OUT
A-IN
A+IN
V-
B+IN
B-IN
B OUT
V+

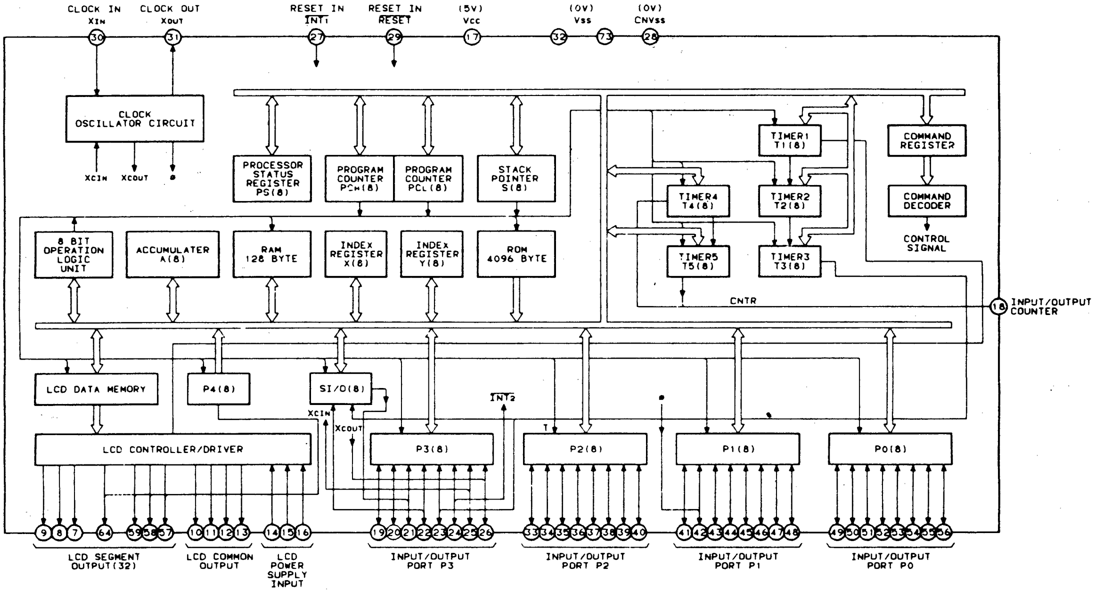
TDA 2822M BLOCK DIAGRAM



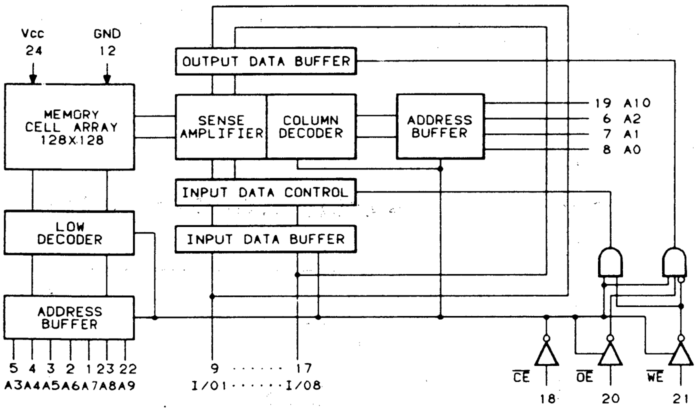
MODEL: CDKM87CP

CD INTEGRATED CIRCUIT BLOCK DIAGRAM (Continued)

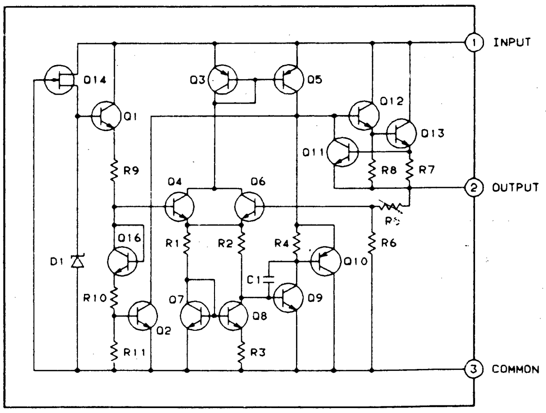
M 50930-414FP BLOCK DIAGRAM


CLOCK IN
XIN
CLOCK OUT
XOUT
RESET IN
INT1
RESET IN
RESET
(5V)
Vcc
(0V)
Vss
(0V)
CNVss
30
31
27
29
17
32
73
28
CLOCK OSCILLATOR CIRCUIT
XCIN
XCOUT
Ø
PROCESSOR STATUS REGISTER PS(8)
PROGRAM COUNTER PCH(8)
PROGRAM COUNTER PCL(8)
STACK POINTER S(8)
8 BIT OPERATION LOGIC UNIT
ACCUMULATER A(8)
RAM 128 BYTE
INDEX REGISTER X(8)
INDEX REGISTER Y(8)
ROM 4096 BYTE
TIMER1 T1(8)
TIMER2 T2(8)
TIMER3 T3(8)
TIMER4 T4(8)
TIMER5 T5(8)
COMMAND REGISTER
COMMAND DECODER
CONTROL SIGNAL
CNTR
18
INPUT/OUTPUT COUNTER
LCD DATA MEMORY
P4(8)
SI/O(8)
XCIN
XCOUT
INT2
T
LCD CONTROLLER/DRIVER
P3(8)
P2(8)
P1(8)
P0(8)
9 8 7 64 59 58 57
10 11 12 13
14 15 16
19 20 21 22 23 24 25 26
33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56
LCD SEGMENT OUTPUT(32)
LCD COMMON OUTPUT
LCD POWER SUPPLY INPUT
INPUT/OUTPUT PORT P3
INPUT/OUTPUT PORT P2
INPUT/OUTPUT PORT P1
INPUT/OUTPUT PORT P0

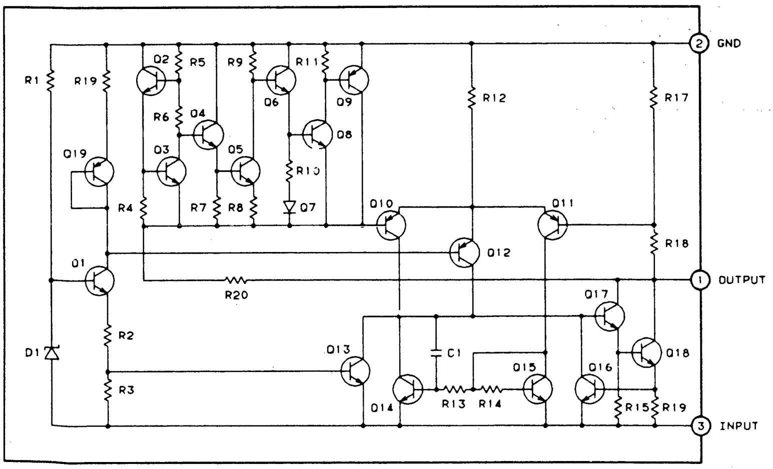
LC 3517AS-15 BLOCK DIAGRAM


Vcc
24
GND
12
MEMORY CELL ARRAY 128×128
LOW DECODER
ADDRESS BUFFER
5 4 3 2 1 23 22
A3 A4 A5 A6 A7 A8 A9
OUTPUT DATA BUFFER
SENSE AMPLIFIER
COLUMN DECODER
ADDRESS BUFFER
INPUT DATA CONTROL
INPUT DATA BUFFER
19 A10
6 A2
7 A1
8 A0
9 ······ 17
I/O1 ······ I/O8
CE
18
OE
20
WE
21

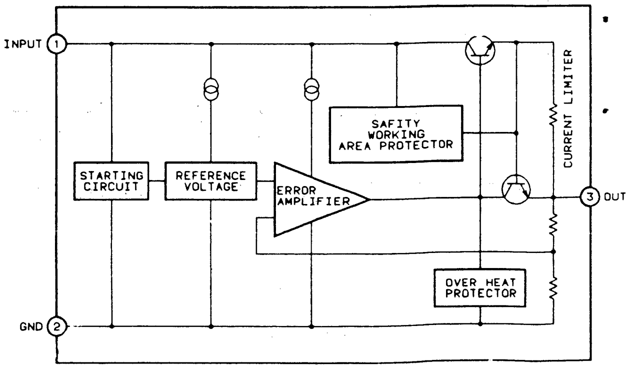
TA 78L006AP BLOCK DIAGRAM


1 INPUT
2 OUTPUT
3 COMMON
Q14
Q1
Q3
Q5
Q12
Q13
Q11
R8
R7
R9
Q4
Q6
Q16
D1
R1
R2
R4
Q10
R6
R5
C1
R10
Q7
Q8
Q9
Q2
R11
R3

TA 79L006P BLOCK DIAGRAM


2 GND
1 OUTPUT
3 INPUT
R1
R19
Q2
R5
R9
R11
Q9
Q6
R6
Q4
Q8
R12
R17
Q19
Q3
Q5
R10
R4
R7
R8
Q7
Q10
Q11
Q12
R18
Q1
R20
Q17
R2
D1
Q13
C1
Q18
Q15
Q16
R3
Q14
R13
R14
R15
R19

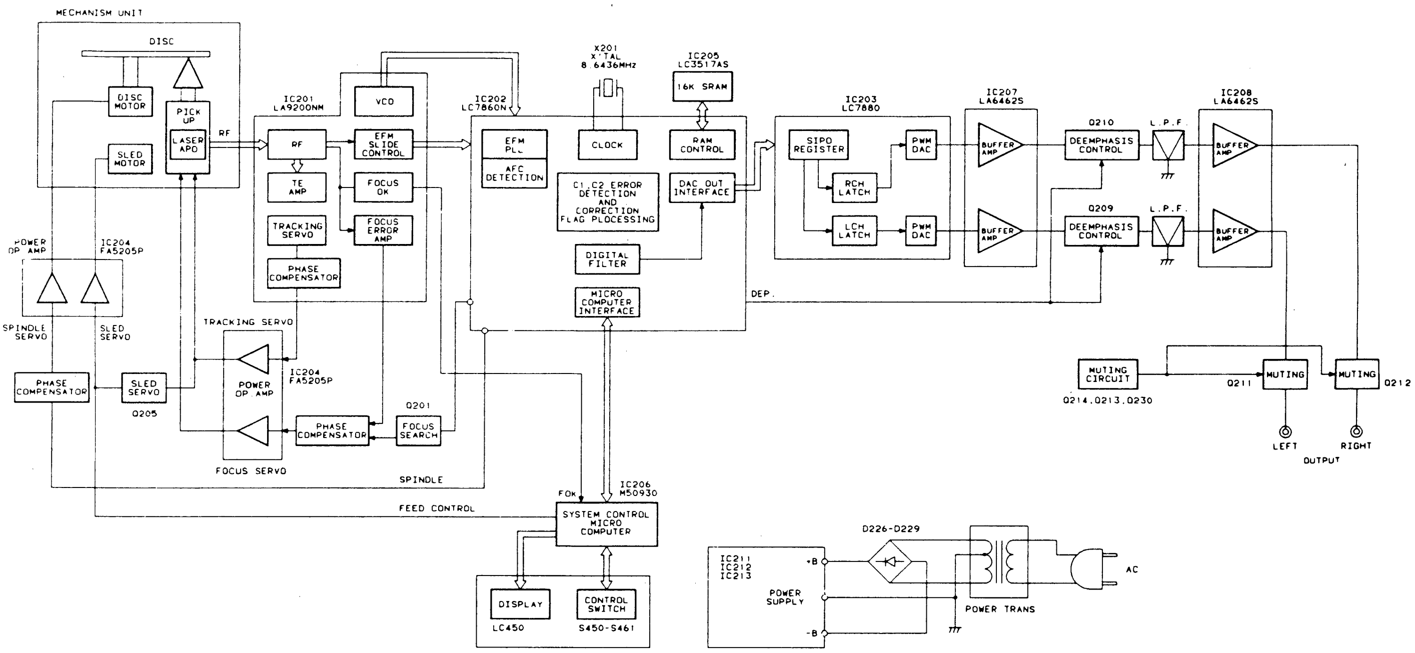
L 78M05 BLOCK DIAGRAM


INPUT 1
GND 2
3 OUT
STARTING CIRCUIT
REFERENCE VOLTAGE
ERROR AMPLIFIER
SAFITY WORKING AREA PROTECTOR
CURRENT LIMITER
OVER HEAT PROTECTOR

COMPO-425(Z)/435(Z)

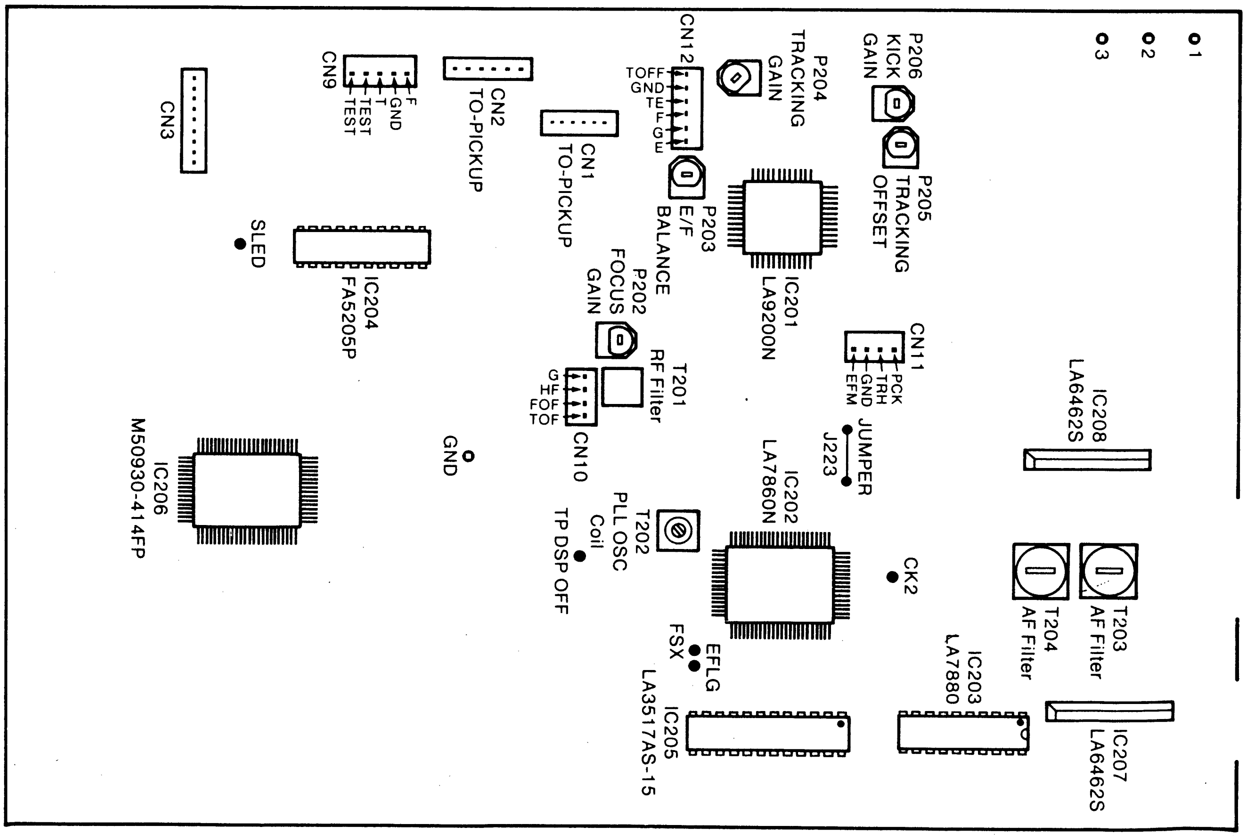
MODEL: CDKM87CP

CD FUNCTIONAL BLOCK DIAGRAM


MECHANISM UNIT
DISC
DISC MOTOR
PICK UP
LASER APD
SLED MOTOR
RF
POWER OP AMP
IC204 FA5205P
SPINDLE SERVO
SLED SERVO
PHASE COMPENSATOR
Q205
TRACKING SERVO
FOCUS SERVO
IC201 LA9200NM
TE AMP
TRACKING SERVO
PHASE COMPENSATOR
VCO
EFM SLIDE CONTROL
FOCUS OK
FOCUS ERROR AMP
Q201
FOCUS SEARCH
IC202 LC7860N
EFM PLL
AFC DETECTION
X201 X'TAL 8.6436MHz
CLOCK
C1, C2 ERROR DETECTION AND CORRECTION FLAG PROCESSING
IC205 LC3517AS
16K SRAM
RAM CONTROL
DAC OUT INTERFACE
DIGITAL FILTER
MICRO COMPUTER INTERFACE
DEP.
SPINDLE
FEED CONTROL
FOK
IC206 M50930
SYSTEM CONTROL MICRO COMPUTER
DISPLAY
LC450
CONTROL SWITCH
S450-S461
IC203 LC7880
SIPO REGISTER
RCH LATCH
LCH LATCH
PWM DAC
IC207 LA6462S
BUFFER AMP
Q210
Q209
DEEMPHASIS CONTROL
L.P.F
IC208 LA6462S
MUTING CIRCUIT
Q214, Q213, Q230
Q211
MUTING
Q212
LEFT
RIGHT
OUTPUT
D226-D229
IC211 IC212 IC213
POWER SUPPLY
+B
-B
POWER TRANS
AC

MAIN P.C.BOARD ALIGNMENT POINTS

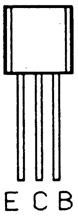
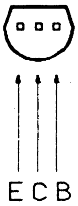
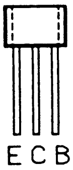
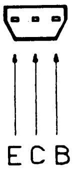
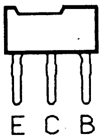
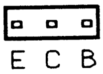
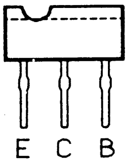
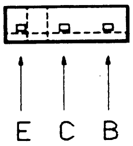
(TOP VIEW)


CN3
CN9
F
GND
T
TEST
TEST
CN2
TO-PICKUP
CN1
TO-PICKUP
CN12
TOFF
GND
TE
F
G
E
P204
TRACKING
GAIN
P206
KICK
GAIN
P205
TRACKING
OFFSET
P203
E/F
BALANCE
IC201
LA9200N
SLED
IC204
FA5205P
P202
FOCUS
GAIN
T201
RF Filter
CN10
G
HF
FOF
TOF
GND
CN11
PCK
TRH
GND
EFM
JUMPER
J223
IC208
LA6462S
IC206
M50930-414FP
T202
PLL OSC
Coil
TP DSP OFF
IC202
LA7860N
CK2
EFLG
FSX
IC205
LA3517AS-15
IC203
LA7880
T204
AF Filter
T203
AF Filter
IC207
LA6462S
1
2
3

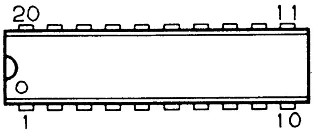
COMPO-425(Z)/435(Z)

MODEL: CDKM87CP

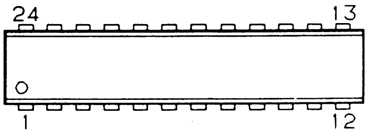
SEMICONDUCTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA 608 2SC 536		
2SC 3400 2SD 1012		
2SB 911 2SD 1227		
DTA 144		
TERMINAL NAME		
B → BASE C → COLLECTOR E → EMITTER		

FA 5205P/LC 7880 TOP VIEWS

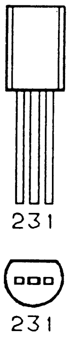


LC 3517AS-15 TOP VIEW

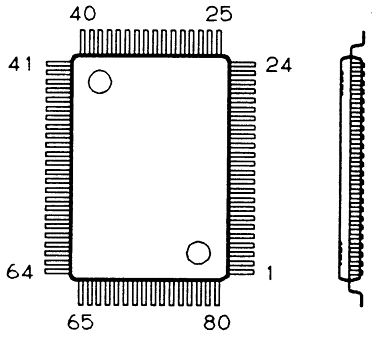


CD SEMICONDUCTOR LEAD IDENTIFICATION

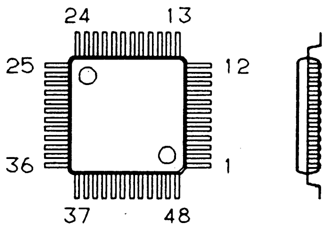
TA 78L006AP/TA 79L006P TOP/BOTTOM VIEWS



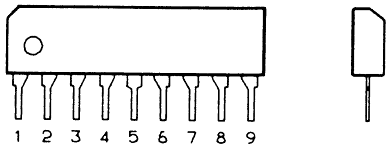
LC 7860N TOP/SIDE VIEWS


40
25
41
24
64
1
65
80

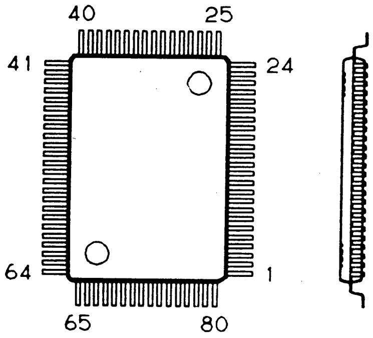
LA 9200NM TOP/SIDE VIEWS


24
13
25
12
36
1
37
48

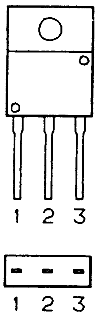
LA 6462S FRONT/SIDE VIEWS



M 50930-414FP TOP/SIDE VIEWS

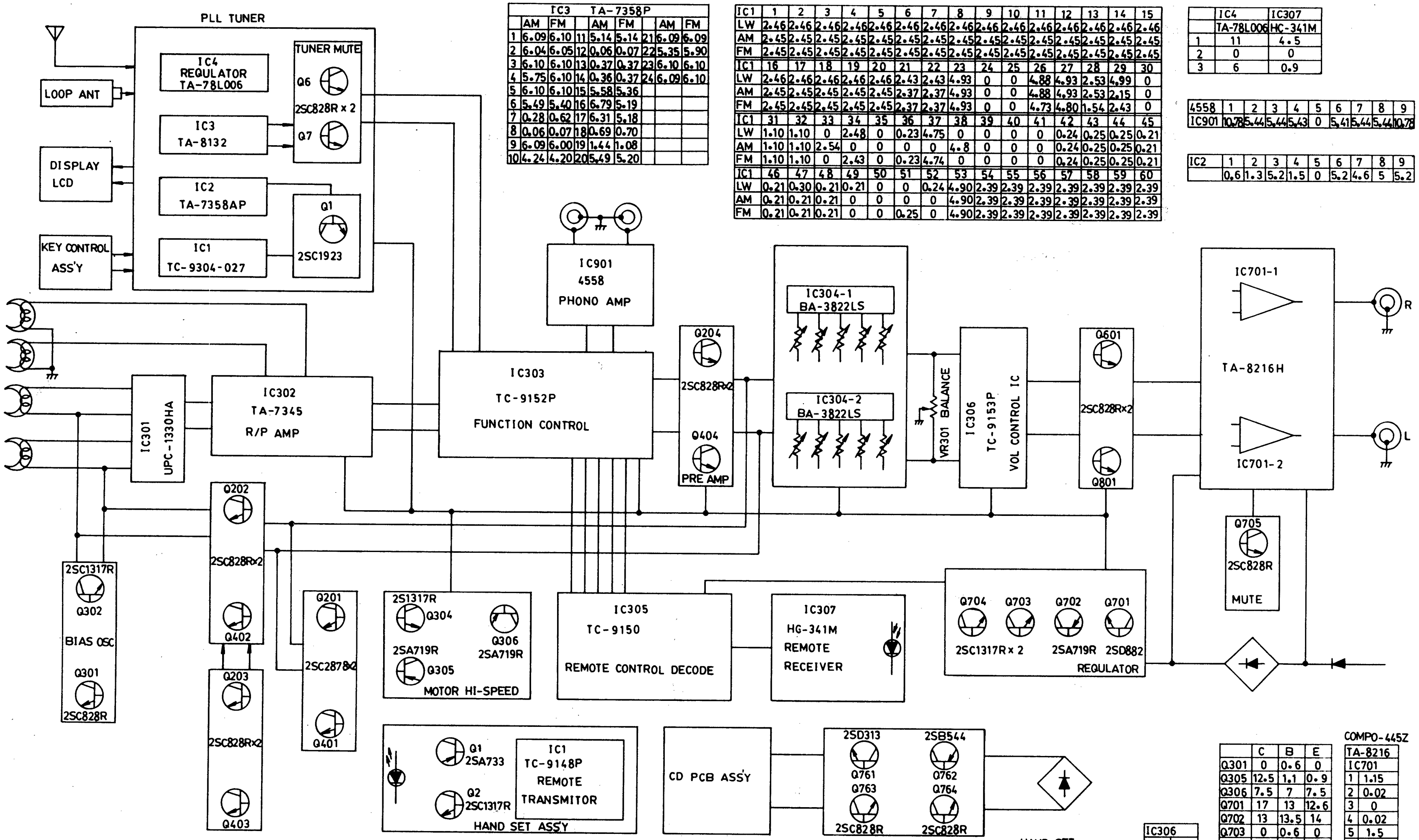

40
25
41
24
64
1
65
80

L 78M05 TOP/BOTTOM VIEWS



COMPO-425(Z)/435(Z)/445(Z)

BLOCK DIAGRAM



PLL TUNER
LOOP ANT
DISPLAY LCD
KEY CONTROL ASS'Y
IC4 REGULATOR TA-78L006
IC3 TA-8132
IC2 TA-7358AP
IC1 TC-9304-027
TUNER MUTE
Q6
Q7
2SC828R x 2
Q1
2SC1923
IC301 UPC-1330HA
IC302 TA-7345 R/P AMP
IC303 TC-9152P FUNCTION CONTROL
IC901 4558 PHONO AMP
Q204
2SC828Rx2
Q404
PRE AMP
IC304-1 BA-3822LS
IC304-2 BA-3822LS
VR301 BALANCE
IC306 TC-9153P VOL CONTROL IC
Q601
2SC828Rx2
Q801
IC701-1
TA-8216H
IC701-2
R
L
Q705
2SC828R
MUTE
Q202
2SC828Rx2
Q402
Q203
2SC828Rx2
Q403
2SC1317R
Q302
BIAS OSC
Q301
2SC828R
Q201
2SC2878x2
Q401
2S1317R
Q304
Q306
2SA719R
2SA719R
Q305
MOTOR HI-SPEED
IC305 TC-9150 REMOTE CONTROL DECODE
IC307 HG-341M REMOTE RECEIVER
Q704
Q703
Q702
Q701
2SC1317R x 2
2SA719R
2SD882
REGULATOR
Q1 2SA733
Q2 2SC1317R
IC1 TC-9148P REMOTE TRANSMITOR
HAND SET ASS'Y
CD PCB ASS'Y
2SD313
2SB544
Q761
Q762
Q763
Q764
2SC828R
2SC828R

IC3 TA-7358P								
	AM	FM		AM	FM		AM	FM
1	6.09	6.10	11	5.14	5.14	21	6.09	6.09
2	6.04	6.05	12	0.06	0.07	22	5.35	5.90
3	6.10	6.10	13	0.37	0.37	23	6.10	6.10
4	5.75	6.10	14	0.36	0.37	24	6.09	6.10
5	6.10	6.10	15	5.58	5.36			
6	5.49	5.40	16	6.79	5.19			
7	0.28	0.62	17	6.31	5.18			
8	0.06	0.07	18	0.69	0.70			
9	6.09	6.00	19	1.44	1.08			
10	4.24	4.20	20	5.49	5.20			

IC1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
LW	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46
AM	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45
FM	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45
IC1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
LW	2.46	2.46	2.46	2.46	2.46	2.43	2.43	4.93	0	0	4.88	4.93	2.53	4.99	0
AM	2.45	2.45	2.45	2.45	2.45	2.37	2.37	4.93	0	0	4.88	4.93	2.53	2.15	0
FM	2.45	2.45	2.45	2.45	2.45	2.37	2.37	4.93	0	0	4.73	4.80	1.54	2.43	0
IC1	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
LW	1.10	1.10	0	2.48	0	0.23	4.75	0	0	0	0	0.24	0.25	0.25	0.21
AM	1.10	1.10	2.54	0	0	0	0	4.8	0	0	0	0.24	0.25	0.25	0.21
FM	1.10	1.10	0	2.43	0	0.23	4.74	0	0	0	0	0.24	0.25	0.25	0.21
IC1	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
LW	0.21	0.30	0.21	0.21	0	0	0.24	4.90	2.39	2.39	2.39	2.39	2.39	2.39	2.39
AM	0.21	0.21	0.21	0	0	0	0	4.90	2.39	2.39	2.39	2.39	2.39	2.39	2.39
FM	0.21	0.21	0.21	0	0	0.25	0	4.90	2.39	2.39	2.39	2.39	2.39	2.39	2.39

	IC4	IC307
	TA-78L006	HC-341M
1	11	4.5
2	0	0
3	6	0.9

4558	1	2	3	4	5	6	7	8	9
IC901	10.78	5.44	5.44	5.43	0	5.41	5.44	5.44	10.78

IC2	1	2	3	4	5	6	7	8	9
	0.6	1.3	5.2	1.5	0	5.2	4.6	5	5.2

IC302	1	2	3	4	5	6	7	8	9	10	11	12
PLAY	0	0	0.5	4.6	0	0	0	0.6	4.2	3.7	0	0
REC	0	0	0.8	4.8	0	0	0	0.6	4.5	4.0	0	0
	13	14	15	16	17	18	19	20	21	22	23	24
PLAY	8.4	4.7	0	4.3	0.8	0	0	0	4.6	0	0	0
REC	9.8	5	0	4.5	0.8	0	0	0	4.8	0.8	0	0

IC301	1	2	3	4	5	6	7	8	9
	0	0	0	0	0	8	0	0	0

IC303	1	2	3	4	5	6	7	8	9	10	11	12
TUNER	0	9.42	0	1.89	0	0	0	0	.02	0	0	0
CD	0	9.42	0	1.89	0	0	0	0	.02	0	0	0
PHONO	0	9.42	0	1.89	0	0	0	0	.02	0	0	0
TAPE	0	9.42	0	1.89	0	0	0	0	.02	0	0	0
AUX	0	9.42	0	1.89	0	0	0	0	.02	0	0	0
	13	14	15	16	17	18	19	20	21	22	23	24
TUNER	0	0	0	0	0	0	0	10	0	0	0	11.5
CD	0	0	0	0	0	0	0	0	0	0	10	11.5
PHONO	0	0	0	0	0	0	10	0	0	0	0	11.5
TAPE	0	0	0	0	0	0	0	0	0	10	0	11.5
AUX	0	0	0	0	0	0	0	0	10	0	0	11.5

COMPO-425Z

TC-9150P				BA-3822LS				TA-8216		TC-9148P			
IC305				IC304				IC701		IC1(HAND SET)			
1	0	13	0	1	9	13	9.07	1	2.0	1	0	9	0
2	0.04	14	0	2	9.06	14	9.07	2	2.1	2	1.8	10	0.3
3	0	15	0	3	9.5	15	9.5	3	0	3	2	11	0.3
4	0	16	0	4	9.56	16	9.5	4	2.1	4	0	12	0.3
5	0	17	0	5	9	17	6.24	5	2.0	5	0	13	1.2
6	0	18	0	6	9	18	3.73	6	7.1	6	0	14	4.35
7	0	19	0	7	9.58	19	3.37	7	10.5	7	0	15	4.35
8	0	20	0	8	9.58	20	6.27	8	2.1	8	0	16	4.35
9	0	21	5	9	9	21	4 34	9	21 0				
10	3.92	22	0	10	9	22	4.34	10	0				
11	0	23	2.55	11	9.5	23	9.9	11	18				
12	0	24	5	12	9.5	24	0	12	13.63				

HAND SET

	C	B	E
Q1	0	4.5	4.5
Q2	4.5	0	0

Q302	C	B	E
NOR	5.2	0.9	0.9
CR02	8	0.9	0.9

Q303	C	B	E
NOR	12 5	0	7 5
CR02	12.5	11.5	11

Q304	C	B	E
PLAY	0	0	0
REC	0	8.5	0.5

IC306	
1	0
2	5.2
3	5.1
4	6
5	5.6
6	5.6
7	12
8	12
9	8.1
10	12
11	5.6
12	5.6
13	6
14	5.1
15	5.2
16	12

	C	B	E
Q301	0	0.6	0
Q305	12.5	1.1	0.9
Q306	7.5	7	7.5
Q701	17	13	12.6
Q702	13	13.5	14
Q703	0	0.6	0
Q704	18	9	8
Q705	5	0	0
Q201	0	0.6	0
Q401	0	0.6	0
Q202	4.7	0.8	0.3
Q402	4.7	0.8	0.3
Q203	0	0.6	0
Q403	0	0.6	0
Q204	4.7	0.8	0.3
Q404	4.7	0.8	0.3
Q601	7.5	1.1	0.7
Q801	7.5	1.1	0.7
Q761	10	8.3	7.8
Q762	-10.5	-9.8	0
Q763	-10.5	-9.8	0
Q764	9.8	-8	-9

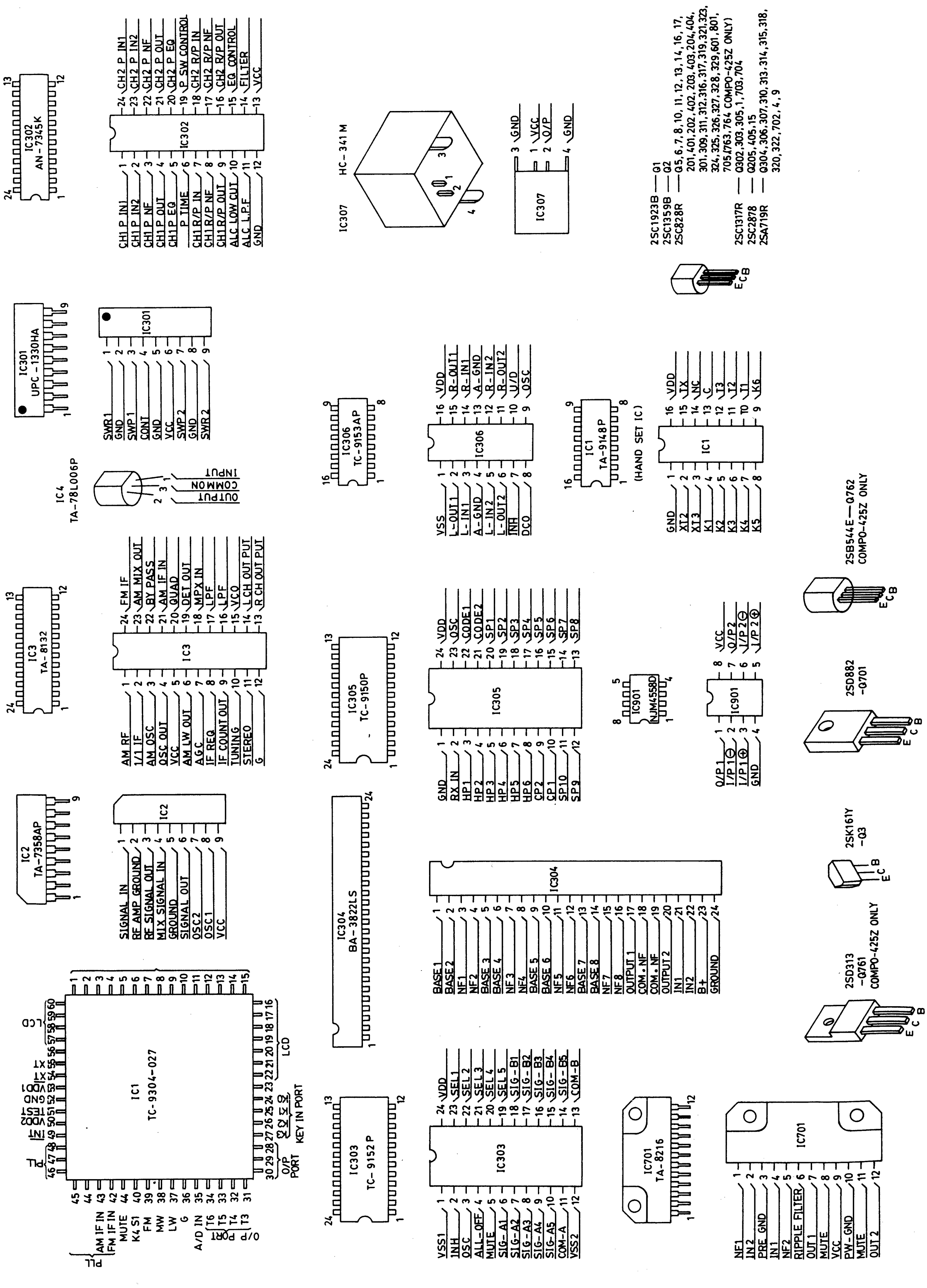
COMPO-445Z

TA-8216	
IC701	
1	1.15
2	0.02
3	0
4	0.02
5	1.5
6	10.06
7	13.94
8	4.98
9	29.8
10	0
11	18
12	13.63

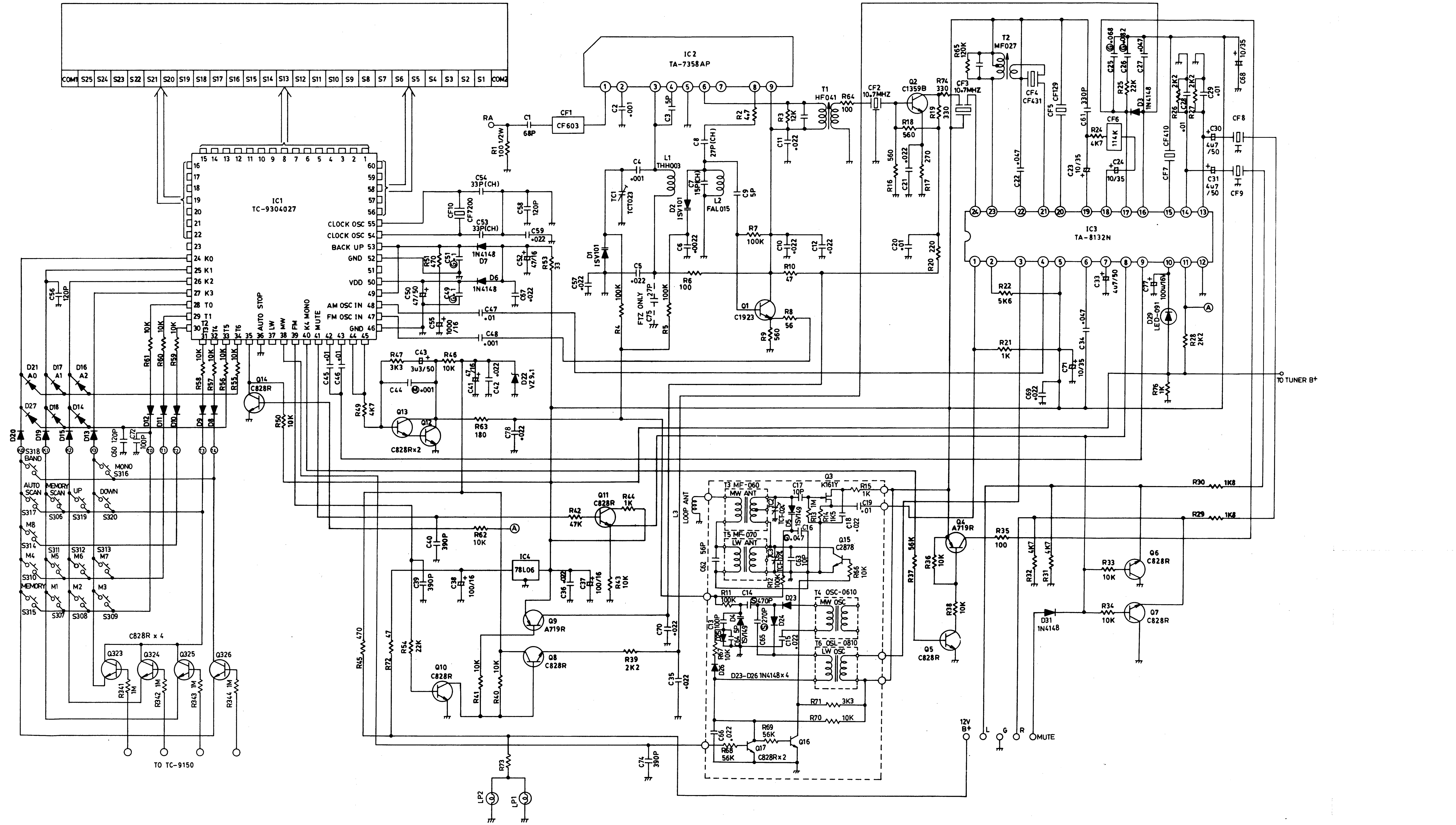
	C	B	E
Q1	5	2	1.8
Q6	0	0.6	0
Q7	0	0.6	0

COMPO-425(Z)/435(Z)/445(Z)

IC/TRANSISTOR CONNECTIONS

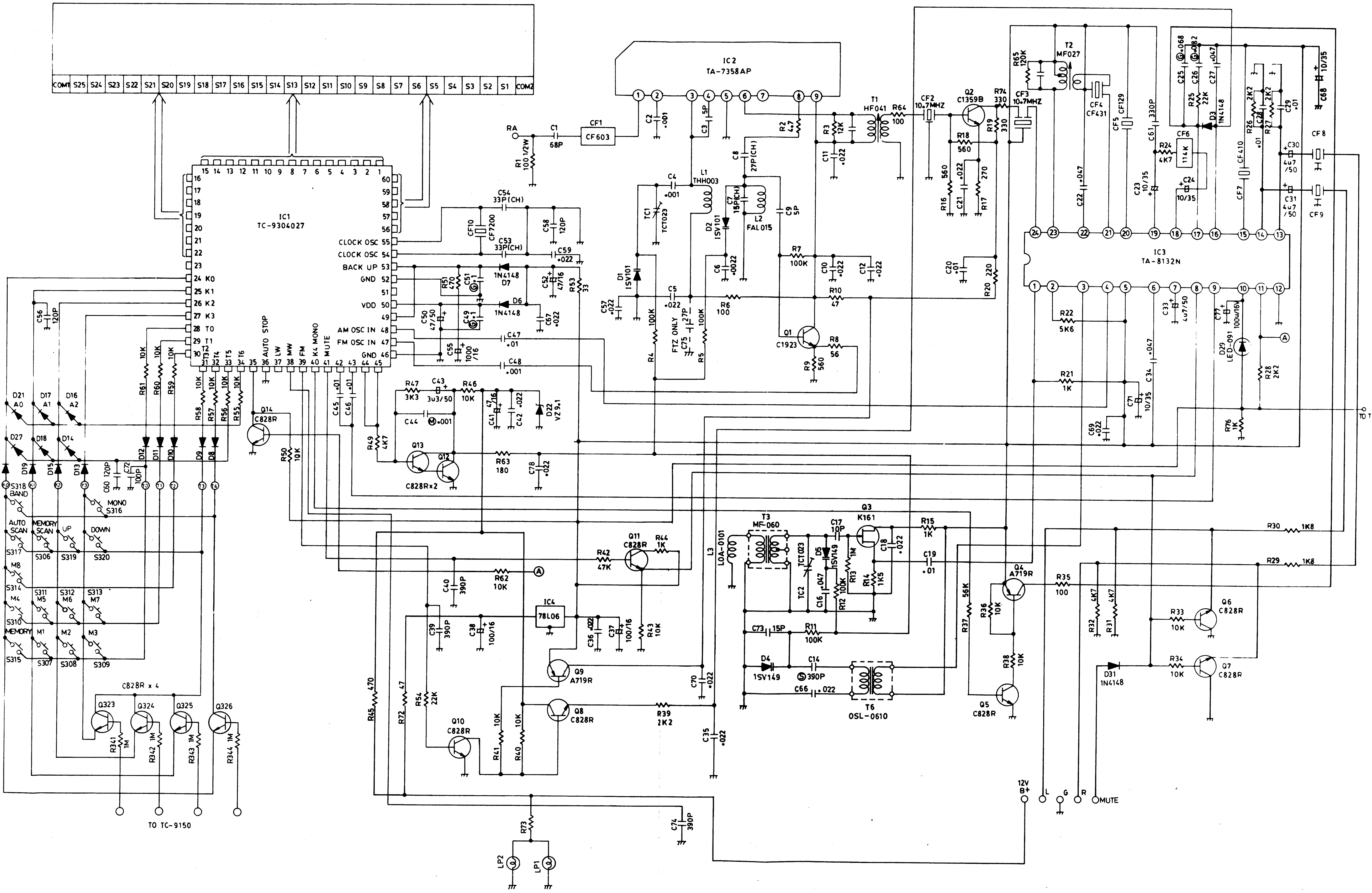

IC302 AN-7345K
CH1 P IN1, CH1 P IN2, CH1 P NF, CH1 P OUT, CH1 P EQ, P TIME, CH1R/P IN, CH1R/P NF, CH1R/P OUT, ALC LOW CUT, ALC L.P.F, GND
CH2 P IN1, CH2 P IN2, CH2 P NF, CH2 P OUT, CH2 P EQ, P SW CONTROL, CH2 R/P IN, CH2 R/P NF, CH2 R/P OUT, EQ CONTROL, FILTER, VCC
IC307 HC-341M
GND, VCC, O/P, GND
2SC1923B — Q1
2SC1359B — Q2
2SC828R — Q5,6,7,8,10,11,12,13,14,16,17, 201,401,202,402,203,403,204,404, 301,309,311,312,316,317,319,321,323, 324,325,326,327,328,329,601,801, 705,(763,764 COMPO-425Z ONLY)
2SC1317R — Q302,303,305,1,703,704
2SC2878 — Q205,405,15
2SA719R — Q304,306,307,310,313,314,315,318, 320,322,702,4,9
E C B
IC301 UPC-1330HA
SWR1, GND, SWP1, CONT, GND, VCC, SWP2, GND, SWR2
IC306 TC-9153AP
VSS, L-OUT1, L-IN1, A-GND, L-IN2, L-OUT2, INH, DCO
VDD, R-OUT1, R-IN1, A-GND, R-IN2, R-OUT2, U/D, OSC
IC1 TA-9148P (HAND SET IC)
GND, XT2, XT3, K1, K2, K3, K4, K5
VDD, TX, NC, C, T3, T2, T1, K6
IC4 TA-78L006P
OUTPUT, COMMON, INPUT
2SB544E — Q762 COMPO-425Z ONLY
IC3 TA-8132
AM RF, 1/1 IF, AM OSC, OSC OUT, VCC, AM LW OUT, AGC, IF REQ, IF COUNT OUT, TUNING, STEREO, G
FM IF, AM MIX OUT, BY PASS, AM IF IN, QUAD, DET OUT, MPX IN, LPF, LPF, VCO, L CH OUT PUT, R CH OUT PUT
IC305 TC-9150P
GND, RX IN, HP1, HP2, HP3, HP4, HP5, HP6, CP2, CP1, SP10, SP9
VDD, OSC, CODE1, CODE2, SP1, SP2, SP3, SP4, SP5, SP6, SP7, SP8
IC901 NJM4558D
O/P 1, I/P 1⊖, I/P 1⊕, GND
VCC, O/P 2, I/P 2⊖, I/P 2⊕
2SD882 -Q701
IC2 TA-7358AP
SIGNAL IN, RF AMP GROUND, RF SIGNAL OUT, MIX SIGNAL IN, GROUND, SIGNAL OUT, OSC2, OSC1, VCC
IC304 BA-3822LS
BASE 1, BASE 2, NF1, NF2, BASE 3, BASE 4, NF3, NF4, BASE 5, BASE 6, NF5, NF6, BASE 7, BASE 8, NF7, NF8, OUTPUT 1, COM. NF, COM. NF, OUTPUT 2, IN1, IN2, B+, GROUND
2SK161Y -Q3
2SD313 -Q761 COMPO-425Z ONLY
IC1 TC-9304-027
LCD, XT, XT, VDD1, GND, TEST, VDD2, INT, PLL
AM IF IN, FM IF IN, MUTE, K4 S1, FM, MW, LW, G, A/D IN, T6, T5, T4, T3, PLL, O/P PORT
LCD, KEY IN PORT, O/P PORT
IC303 TC-9152P
VSS1, INH, OSC, ALL-OFF, MUTE, SIG-A1, SIG-A2, SIG-A3, SIG-A4, SIG-A5, COM-A, VSS2
VDD, SEL 1, SEL 2, SEL 3, SEL 4, SEL 5, SIG-B1, SIG-B2, SIG-B3, SIG-B4, SIG-B5, COM-B
IC701 TA-8216
NF1, IN 2, PRE GND, IN1, NF2, RIPPLE FILTER, OUT 1, MUTE, VCC, PW-GND, MUTE, OUT 2

TUNER SCHEMATIC DIAGRAM (3 BAND)


IC1
TC-9304027
IC2
TA-7358AP
IC3
TA-8132N
IC4
78L06
CLOCK OSC 55
CLOCK OSC 54
BACK UP 53
GND 52
VDD 50
AM OSC IN 48
FM OSC IN 47
GND 46
AUTO STOP
LW
MW
FM
K4 MONO
MUTE
Q1 C1923
Q2 C1359B
Q3 K161Y
Q4 A719R
Q5 C828R
Q6 C828R
Q7 C828R
Q8 C828R
Q9 A719R
Q10 C828R
Q11 C828R
Q12
Q13
C828R×2
Q14 C828R
Q15 C2878
Q16
Q17
C828R×2
Q323
Q324
Q325
Q326
C828R x 4
T1 HF041
T2 MF027
T3 MF-060 MW ANT
T4 OSC-0610 MW OSC
T5 MF-070 LW ANT
T6 OSL-0810 LW OSC
L1 THH003
L2 FAL015
L3 LOOP ANT
CF1 CF603
CF2 10.7MHZ
CF3 10.7MHZ
CF4 CF431
CF5 CF129
CF6 114K
CF7 CF410
CF8
CF9
CF10 CF7200
D23-D26 1N4148×4
D29 LED-091
D31 1N4148
RA
S318 BAND
MONO S316
AUTO SCAN S317
MEMORY SCAN S306
UP S319
DOWN S320
M8 S314
M4 S310
M5 S311
M6 S312
M7 S313
MEMORY S315
M1 S307
M2 S308
M3 S309
TO TC-9150
TO TUNER B+
12V B+
L
G
R
MUTE
LP1
LP2
FTZ ONLY

	317/318	215/320
R73	47 1/2W	15 1/2W

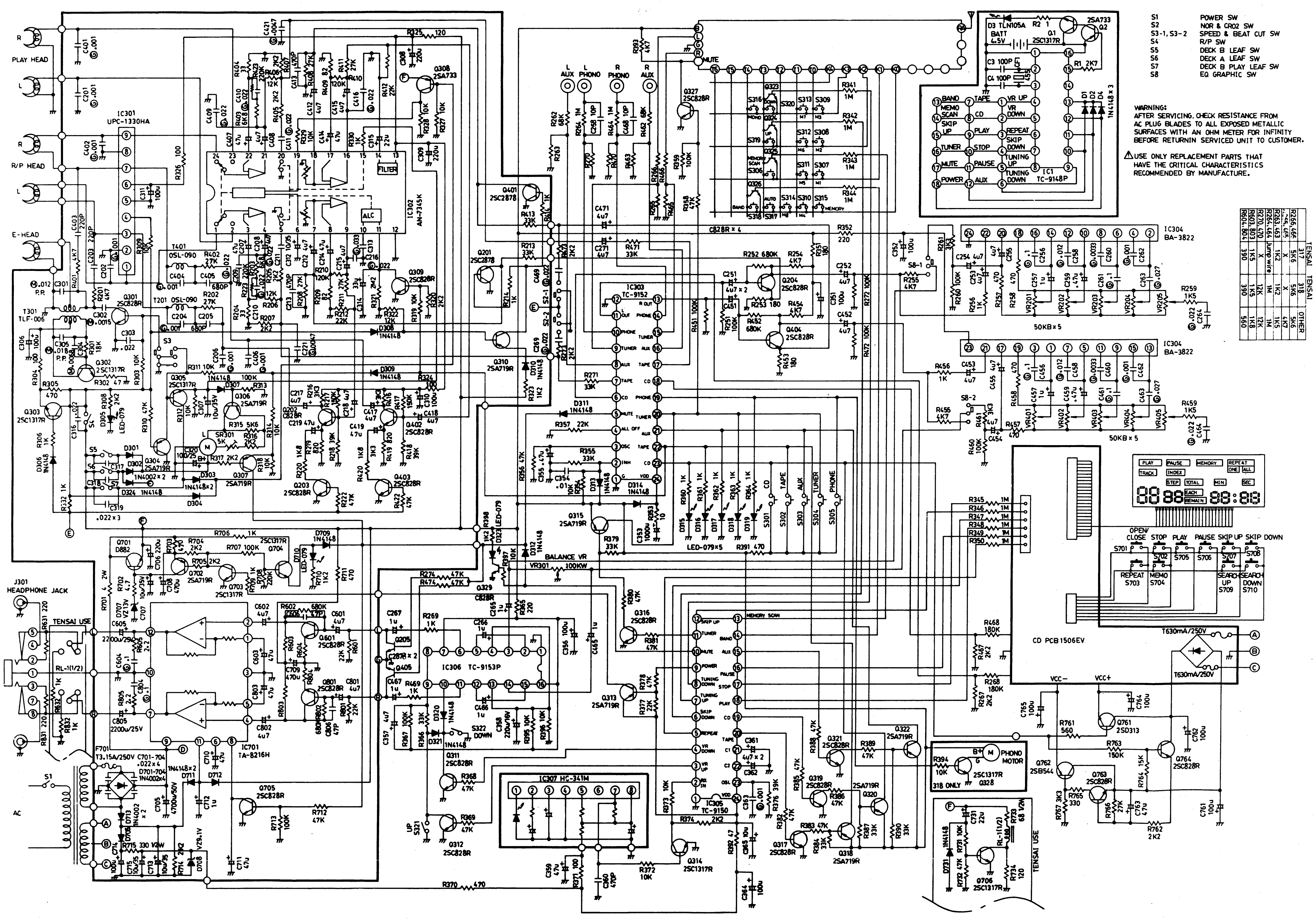
TUNER SCHEMATIC DIAGRAM (2 BAND)


COM1
S25
S24
S23
S22
S21
S20
S19
S18
S17
S16
S15
S14
S13
S12
S11
S10
S9
S8
S7
S6
S5
S4
S3
S2
S1
COM2
IC1
TC-9304027
CLOCK OSC 55
CLOCK OSC 54
BACK UP 53
GND 52
51
VDD 50
49
AM OSC IN 48
FM OSC IN 47
GND 46
24 K0
25 K1
26 K2
27 K3
28 T0
29 T1
30 T2
AUTO STOP
LW
MW
FM
K4 MONO
MUTE
IC2
TA-7358AP
RA
C1
68P
CF1
CF603
R1
100 1/2W
L1
THH003
L2
FAL015
TC1
TC023
D1
1SV101
D2
1SV101
Q1
C1923
T1
HF041
R64
100
CF2
10.7MHZ
Q2
C1359B
CF3
10.7MHZ
T2
MF027
CF4
CF431
CF5
CF129
CF6
114K
CF7
CF410
CF8
CF9
D3
1N4148
IC3
TA-8132N
D29
LED-091
TO TUNER B+
C54
33P(CH)
C53
33P(CH)
CF10
CF7200
D7
1N4148
D6
1N4148
FTZ ONLY
Q14
C828R
Q13
Q12
C828R×2
D22
VZ9.1
D21 A0
D17 A1
D16 A2
D27
D18
D14
D20
D19
D15
D13
D12
D11
D10
D9
D8
S318 BAND
MONO S316
AUTO SCAN S317
MEMORY SCAN S306
UP S319
DOWN S320
M8 S314
S311 M5
S312 M6
S313 M7
M4 S310
MEMORY S315
M1 S307
M2 S308
M3 S309
C828R x 4
Q323
Q324
Q325
Q326
R341 1M
R342 1M
R343 1M
R344 1M
TO TC-9150
Q11
C828R
IC4
78L06
Q9
A719R
Q10
C828R
Q8
C828R
T3
MF-060
L3
LOA-0101
TC2
TC023
D5
1SV149
Q3
K161
D4
1SV149
T6
OSL-0610
Q4
A719R
Q5
C828R
Q6
C828R
Q7
C828R
D31
1N4148
R30 1K8
R29 1K8
12V B+
L
G
R
MUTE
LP1
LP2
R73
C74
390P

	317/318	215/320
R73	47 1/2W	15 1/2W

COMPO-425(Z)/435(Z)

SCHEMATIC DIAGRAM(AUDIO)


PLAY HEAD
R/P HEAD
E-HEAD
IC301 UPC-1330HA
IC302 AN-7345K
FILTER
ALC
T401 OSL-090
T201 OSL-090
T301 TLF-006
Q301 2SC828R
Q302 2SC1317R
Q303 2SC1317R
Q305 2SC1317R
Q306 2SA719R
Q307 2SA719R
Q308 2SA733
Q309 2SC828R
Q310 2SA719R
Q401 2SC2878
Q201 2SC2878
Q202 2SC828R
Q203 2SC828R
Q402 2SC828R
Q403 2SC828R
Q327 2SC828R
AUX PHONO PHONO AUX
MUTE
IC303 TC-9152
Q204 2SC828R
Q404 2SC828R
IC304 BA-3822
50KB×5
S8-1
S8-2
D3 TLN105A
BATT 4.5V
Q1 2SC1317R
Q2 2SA733
IC1 TC-9148P
BAND TAPE VR UP
MEMO SCAN
CD
VR DOWN
SKIP UP
PLAY
REPEAT
SKIP DOWN
TUNER
STOP
TUNING UP
MUTE
PAUSE
TUNING DOWN
POWER
AUX
D1 D2 D4 1N4148×3
PLAY PAUSE MEMORY REPEAT ONE ALL
TRACK INDEX STEP TOTAL MIN SEC
EACH REMAIN
OPEN/CLOSE STOP PLAY PAUSE SKIP UP SKIP DOWN
S701 S702 S705 S706 S707 S708
REPEAT S703
MEMO S704
SEARCH UP S709
SEARCH DOWN S710
CD PCB 1506EV
T630mA/250V
VCC− VCC+
Q761 2SD313
Q762 2SB544
Q763 2SC828R
Q764 2SC828R
Q315 2SA719R
BALANCE VR
VR301 100KW
LED-079×5
S301 S302 S303 S304 S305
CD TAPE AUX TUNER PHONE
Q316 2SC828R
Q313 2SA719R
Q329
Q205
Q405
C2878×2
IC306 TC-9153P
S322 DOWN
S321 UP
Q311 2SC828R
Q312 2SC828R
IC307 HC-341M
Q314 2SC1317R
IC305 TC-9150
SKIP UP TUNER MUTE POWER TUNING DOWN TUNING UP SKIP DOWN REPEAT VR DOWN VR UP
MEMORY SCAN BAND AUX PAUSE STOP PLAY CD TAPE
Q317 2SC828R
Q318 2SA719R
Q319 2SC828R
Q320 2SA719R
Q321 2SC828R
Q322 2SA719R
PHONO MOTOR
Q328 2SC1317R
318 ONLY
J301 HEADPHONE JACK
TENSAI USE
RL-1(1/2)
RL-1(2/2)
Q701 D882
Q702 2SA719R
Q703 2SC1317R
Q704 2SC1317R
Q601 2SC828R
Q801 2SC828R
IC701 TA-8216H
F701 T3.15A/250V
C701-704 .022×4
D701-704 1N4002×4
Q705 2SC828R
Q706 2SC1317R
S1
AC

S1	POWER SW
S2	NOR & CR02 SW
S3-1, S3-2	SPEED & BEAT CUT SW
S4	R/P SW
S5	DECK B LEAF SW
S6	DECK A LEAF SW
S7	DECK B PLAY LEAF SW
S8	EQ GRAPHIC SW

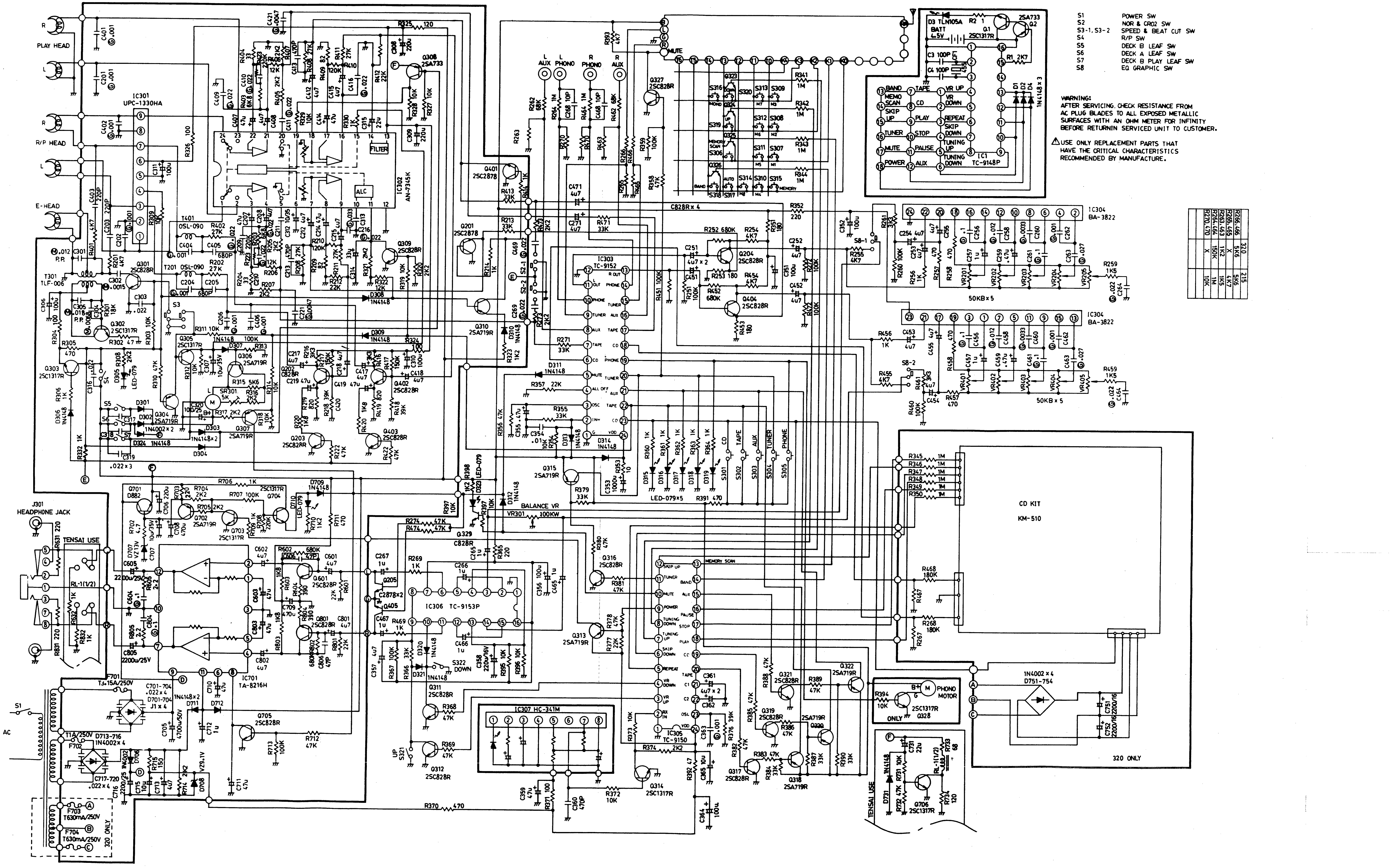
WARNING:
AFTER SERVICING, CHECK RESISTANCE FROM AC PLUG BLADES TO ALL EXPOSED METALLIC SURFACES WITH AN OHM METER FOR INFINITY BEFORE RETURNIN SERVICED UNIT TO CUSTOMER.

⚠USE ONLY REPLACEMENT PARTS THAT HAVE THE CRITICAL CHARACTERISTICS RECOMMENDED BY MANUFACTURE.

	TENSAI 317	TENSAI 318	OTHER
R266,466	5K6	5K6	5K6
R265,465	X	X	4K7
R263,463	1K2	1K2	1K5
R264,464	Jump wire	1M	1M
R270,470	X	12K	12K
R603,803	1K5	1K5	1K8
R604,804	390	390	560

COMPO-445(Z)

SCHEMATIC DIAGRAM (AUDIO)


PLAY HEAD
R/P HEAD
E-HEAD
IC301 UPC-1330HA
IC302 AN-7345K
FILTER
ALC
T401 OSL-090
T201 OSL-090
T301 TLF-006
IC303 TC-9152
IC304 BA-3822
50KB×5
C828R×4
IC1 TC-9148P
D3 TLN105A
BATT 4.5V
2SA733
2SC1317R
1N4148×3
BAND
MEMO SCAN
SKIP UP
TUNER
MUTE
POWER
TAPE
CD
PLAY
STOP
PAUSE
AUX
VR UP
VR DOWN
REPEAT
SKIP DOWN
TUNING UP
TUNING DOWN
L AUX
L PHONO
R PHONO
R AUX
J301 HEADPHONE JACK
TENSAI USE
RL-1(1/2)
IC701 TA-8216H
IC306 TC-9153P
IC307 HC-341M
IC305 TC-9150
BALANCE VR
VR301 100KW
LED-079×5
CD KIT
KM-510
PHONO MOTOR
ONLY
320 ONLY
1N4002×4
D751-754
S1
AC
F701 T3.15A/250V
F702
T1A/250V
D713-716 1N4002×4
F703 T630mA/250V
F704 T630mA/250V
320 ONLY

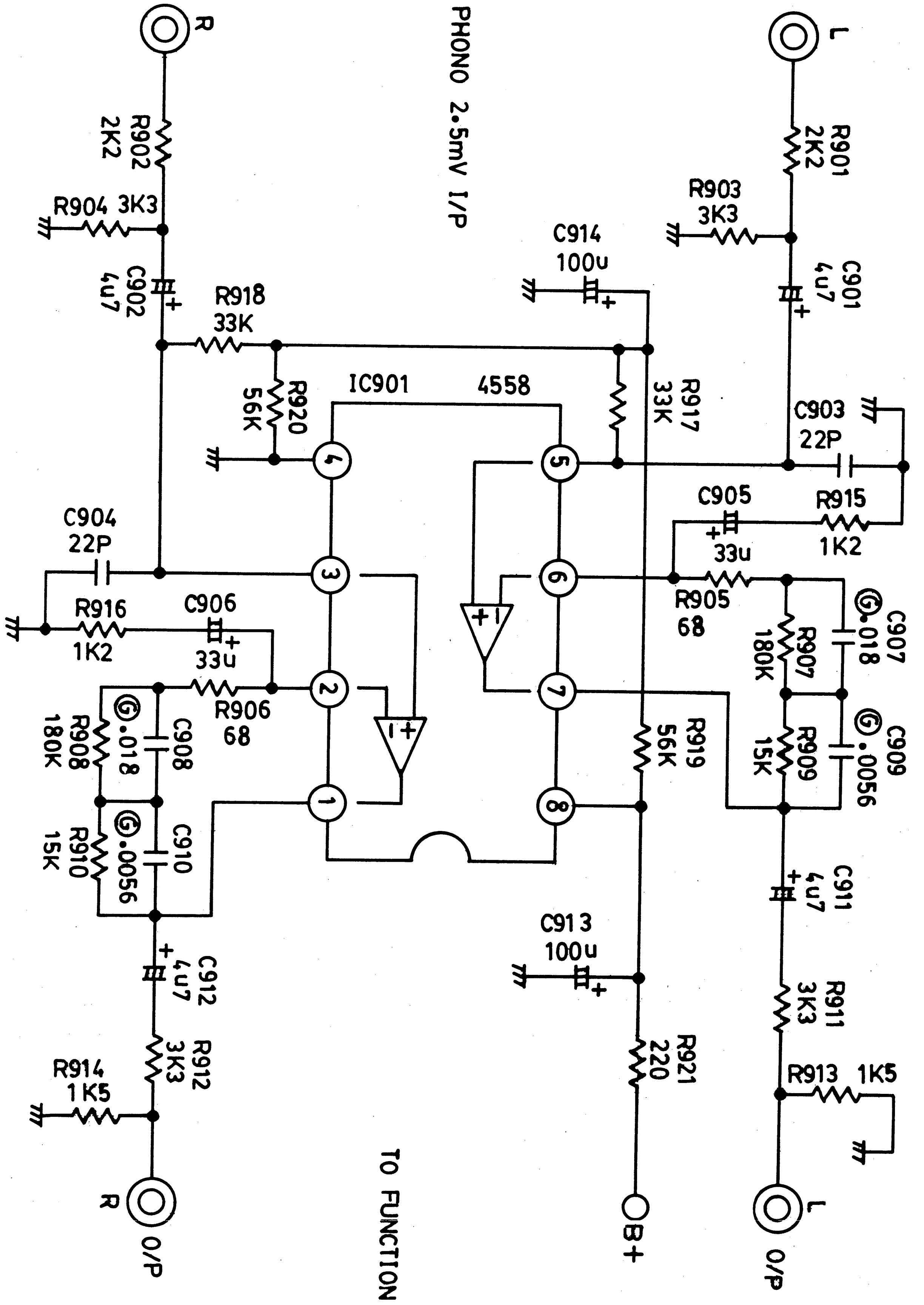
S1	POWER SW
S2	NOR & CR02 SW
S3-1, S3-2	SPEED & BEAT CUT SW
S4	R/P SW
S5	DECK B LEAF SW
S6	DECK A LEAF SW
S7	DECK B PLAY LEAF SW
S8	EQ GRAPHIC SW

WARNING:
AFTER SERVICING, CHECK RESISTANCE FROM AC PLUG BLADES TO ALL EXPOSED METALLIC SURFACES WITH AN OHM METER FOR INFINITY BEFORE RETURNIN SERVICED UNIT TO CUSTOMER.

⚠ USE ONLY REPLACEMENT PARTS THAT HAVE THE CRITICAL CHARACTERISTICS RECOMMENDED BY MANUFACTURE.

COMPO-425(Z)/445(Z)

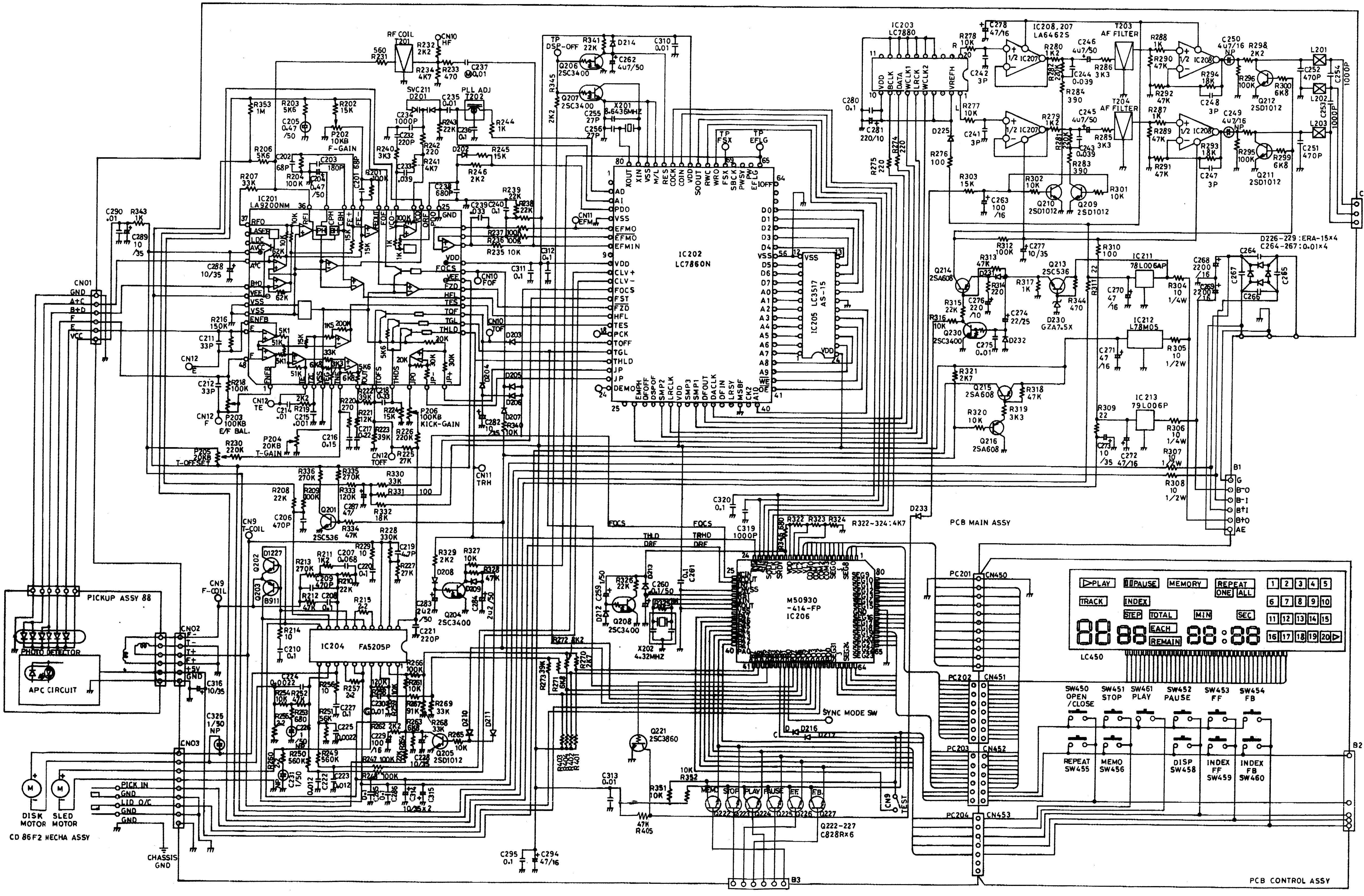
SCHEMATIC DIAGRAM (M.M. PCB)


R
R902 2K2
R904 3K3
C902 4u7
R918 33K
R920 56K
IC901
4558
PHONO 2.5mV I/P
C914 100u
R917 33K
L
R901 2K2
R903 3K3
C901 4u7
C903 22P
C905 33u
R915 1K2
C904 22P
R916 1K2
C906 33u
R906 68
R905 68
R907 180K
C907 .018
R908 180K
C908 .018
R909 15K
C909 .0056
R910 15K
C910 .0056
R919 56K
C911 4u7
C913 100u
C912 4u7
R912 3K3
R911 3K3
R921 220
R913 1K5
R914 1K5
1
2
3
4
5
6
7
8
TO FUNCTION
B+
R O/P
L O/P

COMPO-425(Z)/435(Z)

MODEL: CDKM87CP

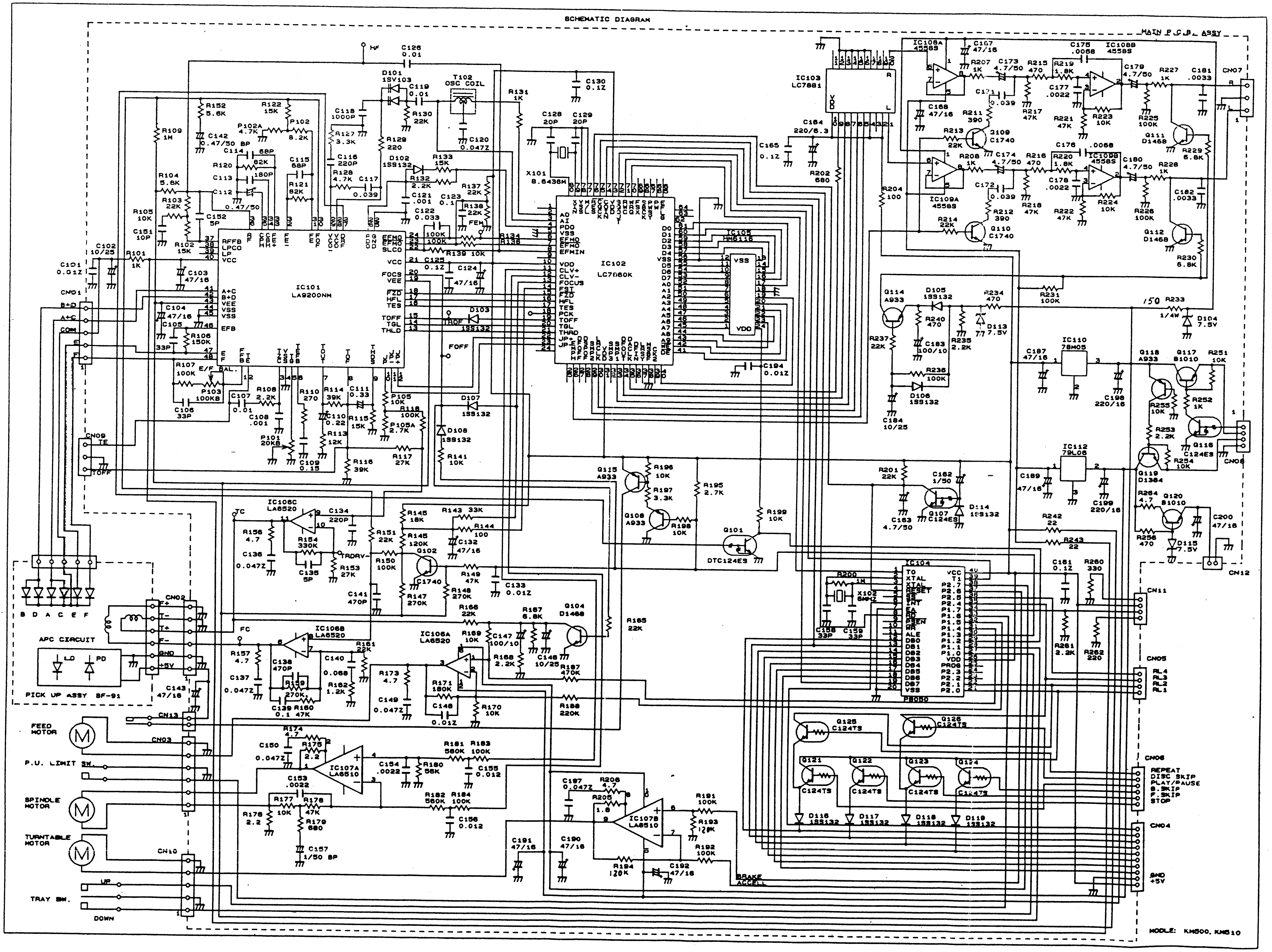
SCHEMATIC DIAGRAM (CD MAIN)


IC201 LA9200NM
IC202 LC7860N
IC203 LC7880
IC204 FA5205P
IC205 LC3517 AS-15
IC206 M50930-414-FP
IC208,207 LA6462S
IC211 78L006AP
IC212 L78M05
IC213 79L006P
RF COIL T201
PLL ADJ T202
T203 AF FILTER
T204 AF FILTER
X201 8.6436MHZ
X202 4.32MHZ
P202 10KB F-GAIN
P203 100KB E/F BAL.
P204 20KB T-GAIN
P205 20KB T-OFFSET
P206 100KB KICK-GAIN
CN01
CN02
CN03
CN08
CN9 T-COIL
CN9 F-COIL
CN9 TEST
CN10 HF
CN10 FOF
CN10 TOF
CN11 EFM
CN11 TRH
CN12 E
CN12 F
CN12 TE
CN12 TOFF
TP DSP-OFF
TP FSX
TP EFLG
PICKUP ASSY 88
PHOTO DETECTOR
APC CIRCUIT
DISK MOTOR
SLED MOTOR
CD 86F2 MECHA ASSY
PICK IN
GND
LID O/C
CHASSIS GND
SYNC MODE SW
D226-229 : ERA-15×4
C264-267 : 0.01×4
R322-324 : 4K7
Q222-227 C828R×6
MEMO
STOP
PLAY
PAUSE
FF
FB
PCB MAIN ASSY
PCB CONTROL ASSY
PC201 CN450
PC202 CN451
PC203 CN452
PC204 CN453
LC450
PLAY
PAUSE
MEMORY
REPEAT ONE ALL
TRACK
INDEX
STEP
TOTAL
MIN
SEC
EACH
REMAIN
SW450 OPEN /CLOSE
SW451 STOP
SW461 PLAY
SW452 PAUSE
SW453 FF
SW454 FB
REPEAT SW455
MEMO SW456
DISP SW458
INDEX FF SW459
INDEX FB SW460
B1
B2
B3
L201
L202
L203

COMPO-445(Z)

MODEL: KM-510A

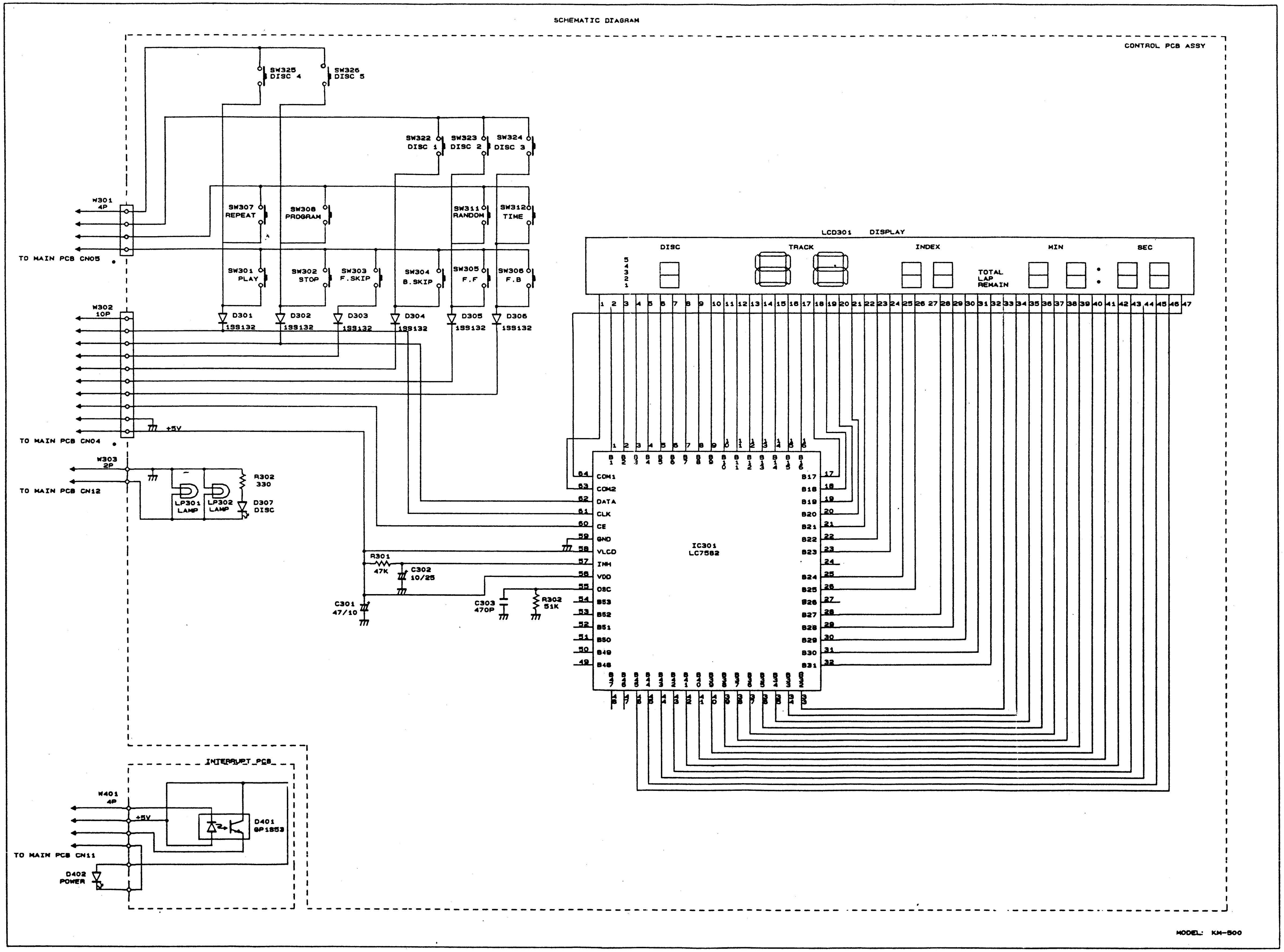
SCHEMATIC DIAGRAM (CD MAIN)


SCHEMATIC DIAGRAM
MAIN P.C.B. ASSY
IC101 LA9200NM
IC102 LC7860K
IC103 LC7881
IC104 P8050
IC105 HM6116
IC106A LA6520
IC106B LA6520
IC106C LA6520
IC107A LA6510
IC107B LA6510
IC108A 4558S
IC108B 4558S
IC109A 4558S
IC109B 4558S
IC110 78M05
IC112 79L06
X101 8.6436M
X102 6MHZ
T102 OSC COIL
D101 1SV103
D102 1SS132
D103 1SS132
D104 7.5V
D105 1SS132
D106 1SS132
D107 1SS132
D108 1SS132
D113 7.5V
D114 1SS132
D115 7.5V
D116 1SS132
D117 1SS132
D118 1SS132
D119 1SS132
Q101 DTC124ES
Q102 C1740
Q104 D1468
Q107 C124ES
Q108 A933
Q109 C1740
Q110 C1740
Q111 D1468
Q112 D1468
Q114 A933
Q115 A933
Q116 C124ES
Q117 B1010
Q118 A933
Q119 D1384
Q120 B1010
Q121 C124TS
Q122 C124TS
Q123 C124TS
Q124 C124TS
Q125 C124TS
Q126 C124TS
E/F BAL.
HF
FC
TC
FOFF
TOFF
TRDAV
CN01
CN02
CN03
CN04
CN05
CN06
CN07
CN08
CN09
CN10
CN11
CN12
CN13
B D A C E F
LD PD
APC CIRCUIT
PICK UP ASSY SF-91
FEED MOTOR
P.U. LIMIT SW.
SPINDLE MOTOR
TURNTABLE MOTOR
TRAY SW.
UP
DOWN
BRAKE
ACCELL
REPEAT
DISC SKIP
PLAY/PAUSE
B.SKIP
F.SKIP
STOP
RL4
RL3
RL2
RL1
GND
+5V
MODLE: KM500, KM510

COMPO-445(Z)

MODEL: KM-510A

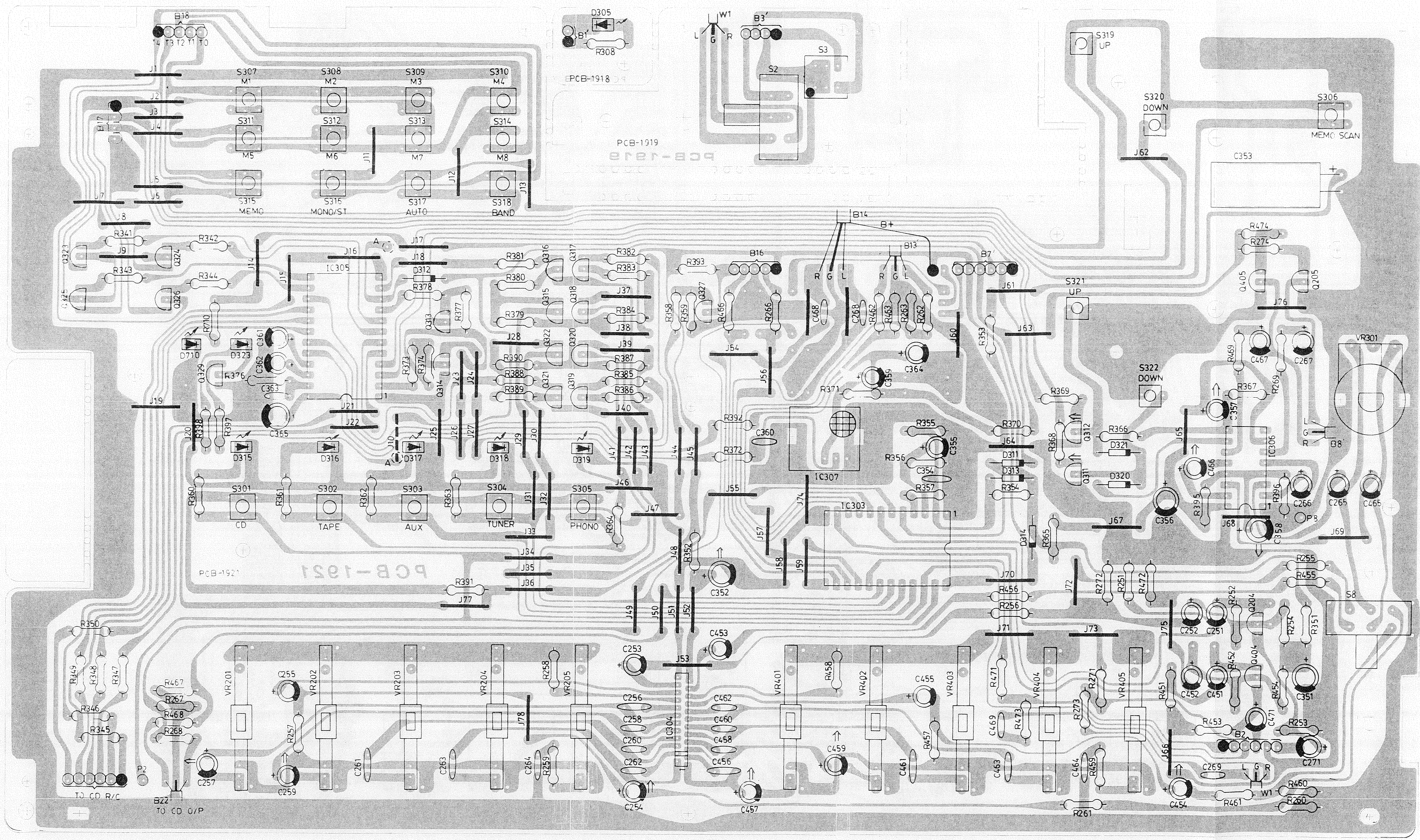
SCHEMATIC DIAGRAM (CD CONTROL)


SCHEMATIC DIAGRAM
CONTROL PCB ASSY
SW325 DISC 4
SW326 DISC 5
SW322 DISC 1
SW323 DISC 2
SW324 DISC 3
SW307 REPEAT
SW308 PROGRAM
SW311 RANDOM
SW312 TIME
SW301 PLAY
SW302 STOP
SW303 F.SKIP
SW304 B.SKIP
SW305 F.F
SW306 F.B
D301 1SS132
D302 1SS132
D303 1SS132
D304 1SS132
D305 1SS132
D306 1SS132
W301 4P
TO MAIN PCB CN05
W302 10P
+5V
TO MAIN PCB CN04
W303 2P
TO MAIN PCB CN12
LP301 LAMP
LP302 LAMP
R302 330
D307 DISC
LCD301 DISPLAY
DISC
TRACK
INDEX
MIN
SEC
5 4 3 2 1
TOTAL
LAP
REMAIN
IC301 LC7582
COM1
COM2
DATA
CLK
CE
GND
VLCD
INH
VDD
OSC
B53
B52
B51
B50
B49
B48
B17
B18
B19
B20
B21
B22
B23
B24
B25
B26
B27
B28
B29
B30
B31
R301 47K
C302 10/25
C301 47/10
C303 470P
R302 51K
INTERRUPT PCB
W401 4P
+5V
D401 GP1S53
TO MAIN PCB CN11
D402 POWER
MODEL: KM-500

COMPO-425(Z)/435(Z)/445(Z)

P.C. BOARD PARTS LOCATION

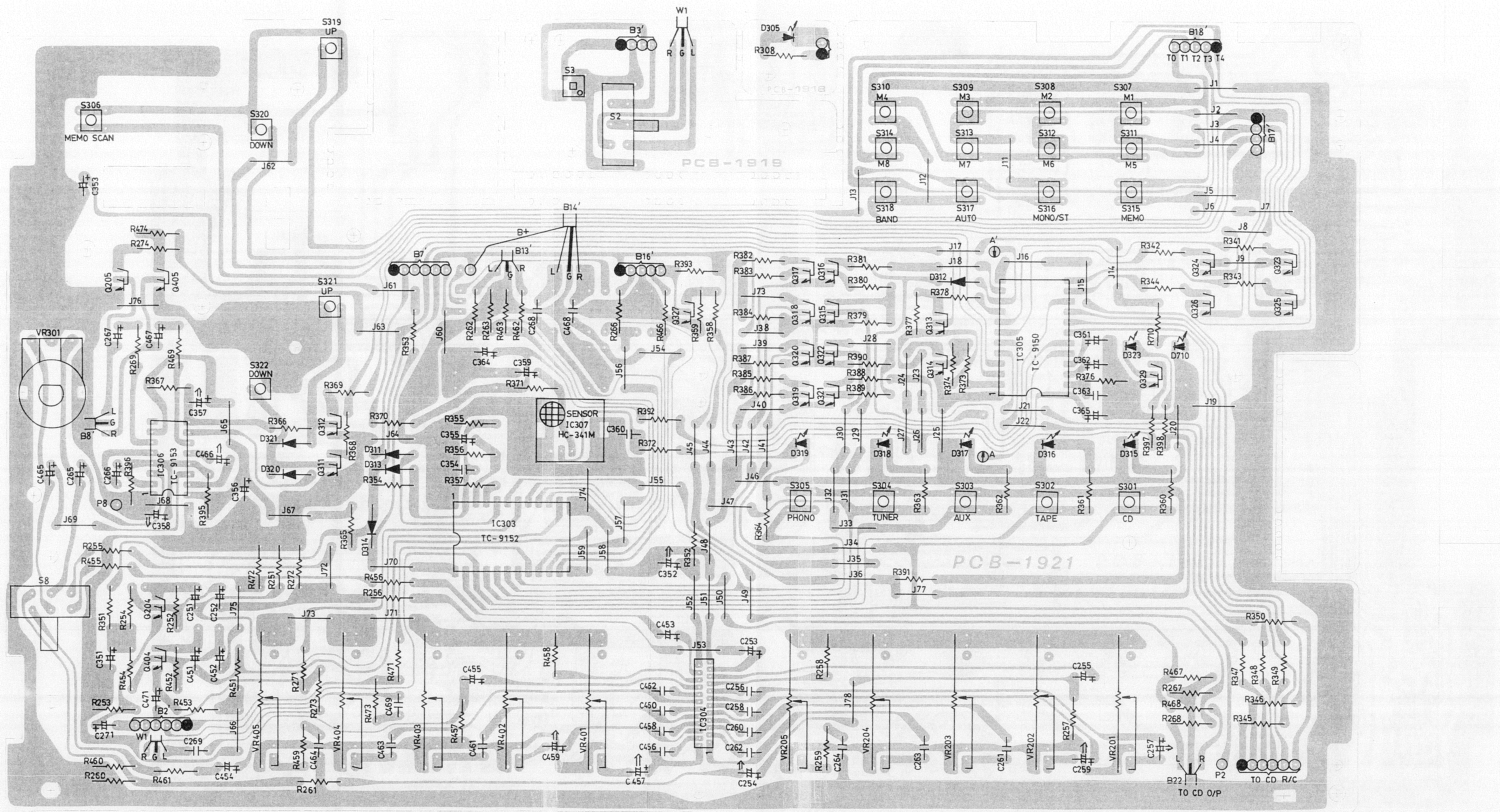
MAIN PCB-1918,1919,1921


PCB-1918
PCB-1919
PCB-1921
S307 M1
S308 M2
S309 M3
S310 M4
S311 M5
S312 M6
S313 M7
S314 M8
S315 MEMO
S316 MONO/ST
S317 AUTO
S318 BAND
S319 UP
S320 DOWN
S306 MEMO SCAN
S321 UP
S322 DOWN
S301 CD
S302 TAPE
S303 AUX
S304 TUNER
S305 PHONO
IC305
IC307
IC303
IC304
VR301
VR201
VR202
VR203
VR204
VR205
VR401
VR402
VR403
VR404
VR405
C353
B14 B+
B13
B16
B7
B18
B3'
B2
B22
TO CD R/C
TO CD O/P
W1
L G R
S2
S3
S8
D305
R308

COMPO-425(Z)/435(Z)/445(Z)

P.C. BOARD DIAGRAM

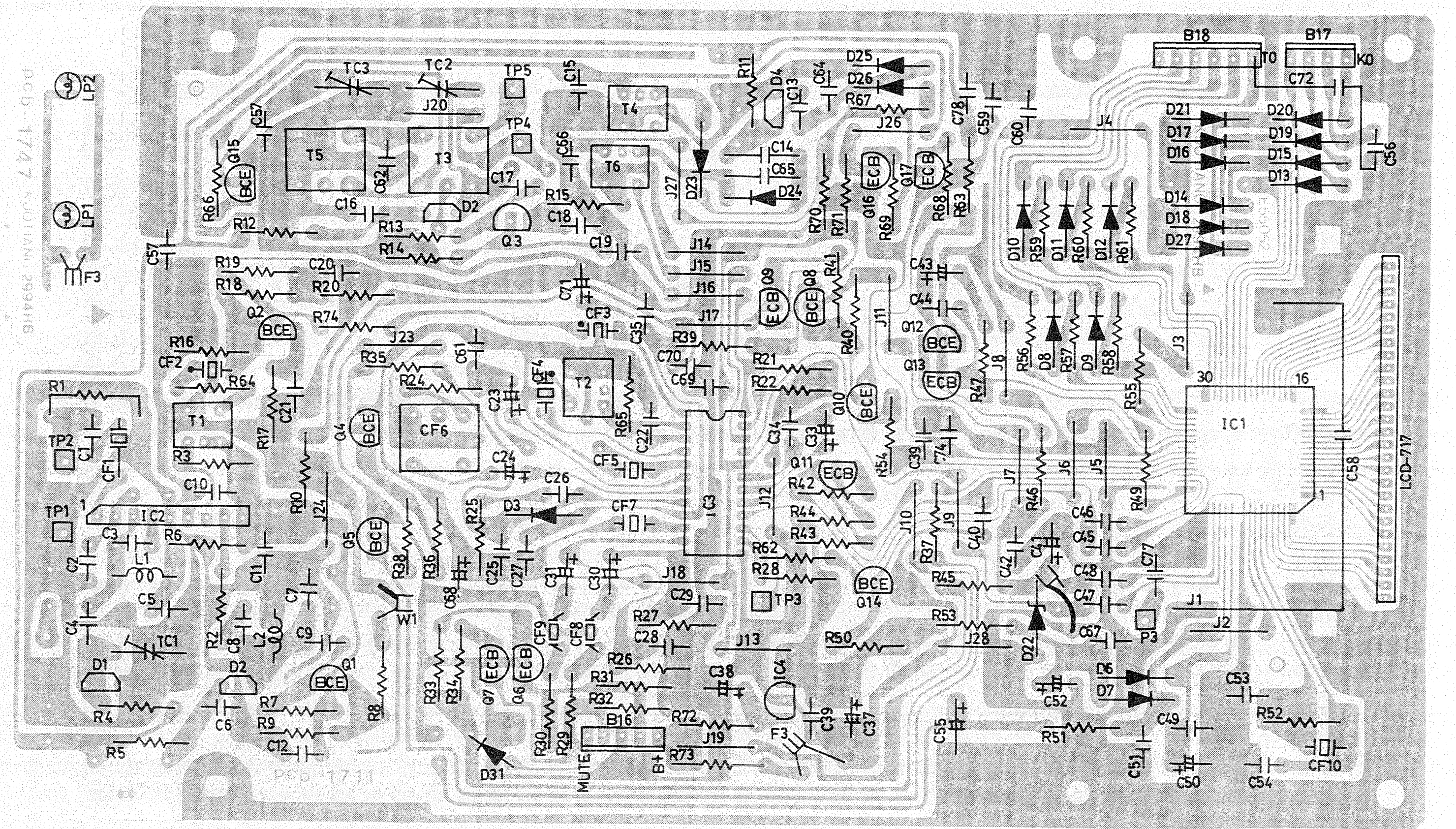
MAIN PCB-1918,1919,1921


S319 UP
S306 MEMO SCAN
S320 DOWN
S321 UP
S322 DOWN
S3
S2
W1 R G L
B3'
D305
R308
PCB-1918
PCB-1919
PCB-1921
B18' T0 T1 T2 T3 T4
S310 M4
S309 M3
S308 M2
S307 M1
S314 M8
S313 M7
S312 M6
S311 M5
S318 BAND
S317 AUTO
S316 MONO/ST
S315 MEMO
B17'
B14'
B+
B13'
B7'
B16'
VR301
B8' L G R
IC306 TC-9153
SENSOR IC307 HC-341M
IC303 TC-9152
IC305 TC-9150
IC304
S305 PHONO
S304 TUNER
S303 AUX
S302 TAPE
S301 CD
S8
B2
W1 R G L
VR405
VR404
VR403
VR402
VR401
VR205
VR204
VR203
VR202
VR201
B22 L R TO CD O/P
P2
TO CD R/C
P8
D319
D318
D317
D316
D315
D323
D710
D312
D311
D313
D314
D320
D321
Q205
Q405
Q204
Q404
Q311
Q312
Q313
Q314
Q315
Q316
Q317
Q318
Q319
Q320
Q321
Q322
Q323
Q324
Q325
Q326
Q327
Q329

P.C. BOARD DIAGRAM

TUNER PCB-1711 (3BAND)

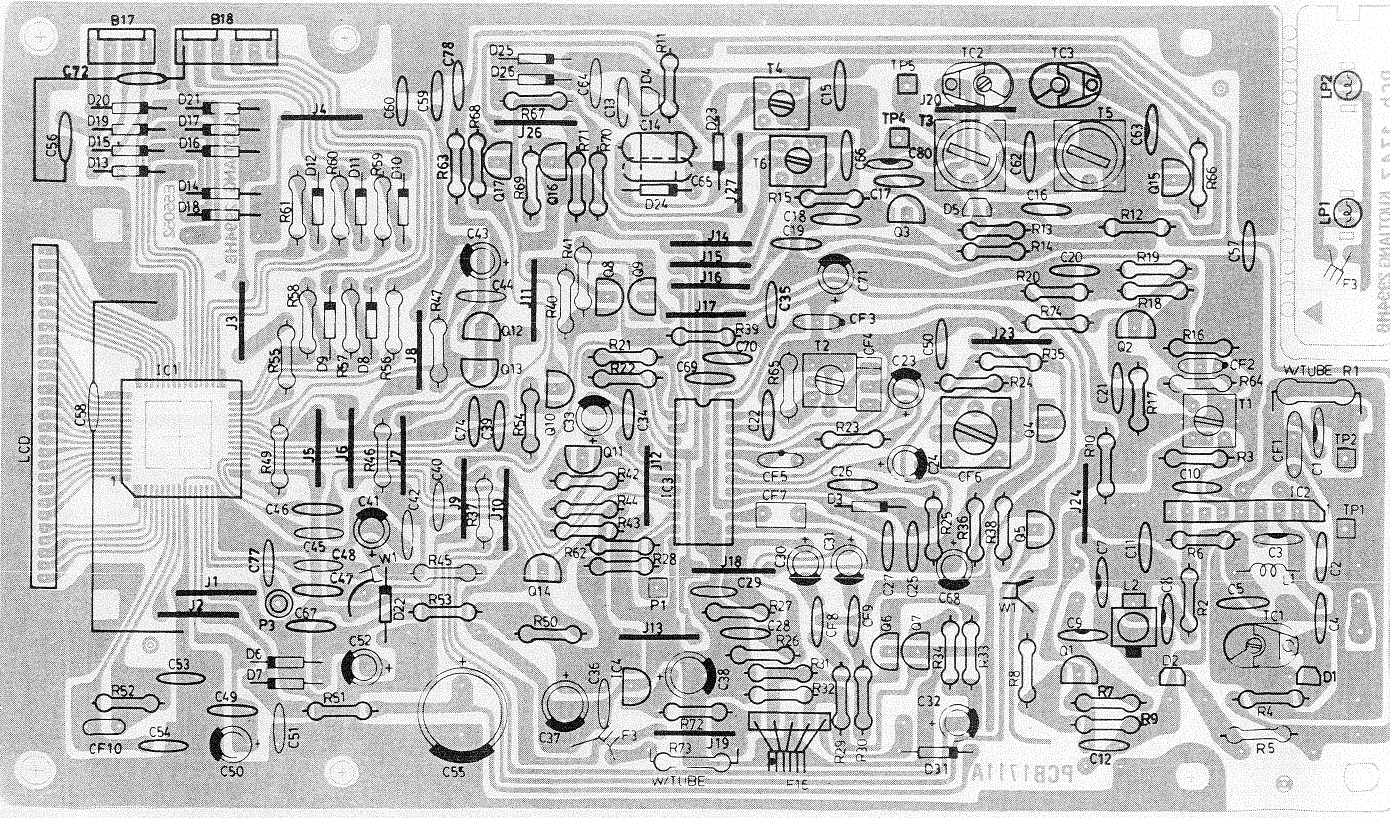
LAMP PCB-1747


PCB-1747
LP1
LP2
F3
TC1
TC2
TC3
T1
T2
T3
T4
T5
T6
TP1
TP2
TP3
TP4
TP5
IC1
IC2
IC3
IC4
CF1
CF2
CF3
CF4
CF5
CF6
CF7
CF8
CF9
CF10
B16
B17
B18
MUTE
B+
LCD-717
PCB 1711

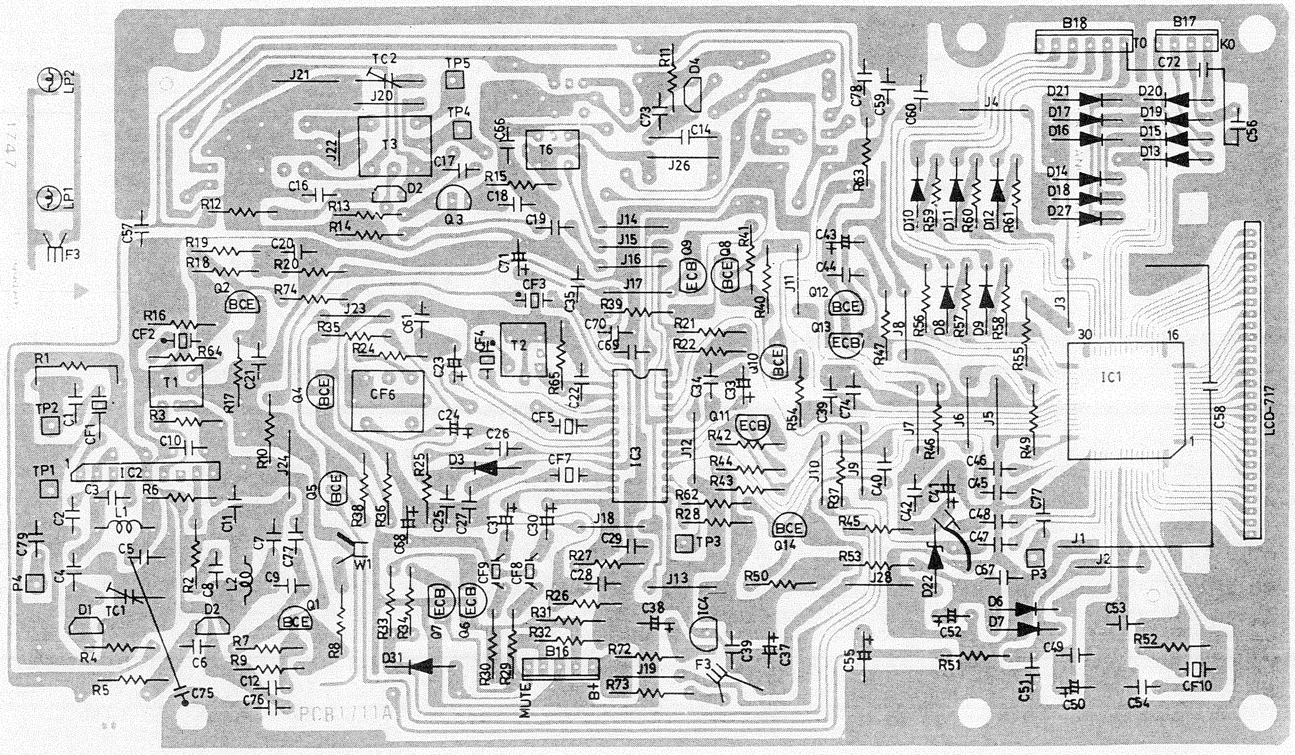
P.C. BOARD PARTS LOCATION

TUNER PCB-1711 (3 BAND)

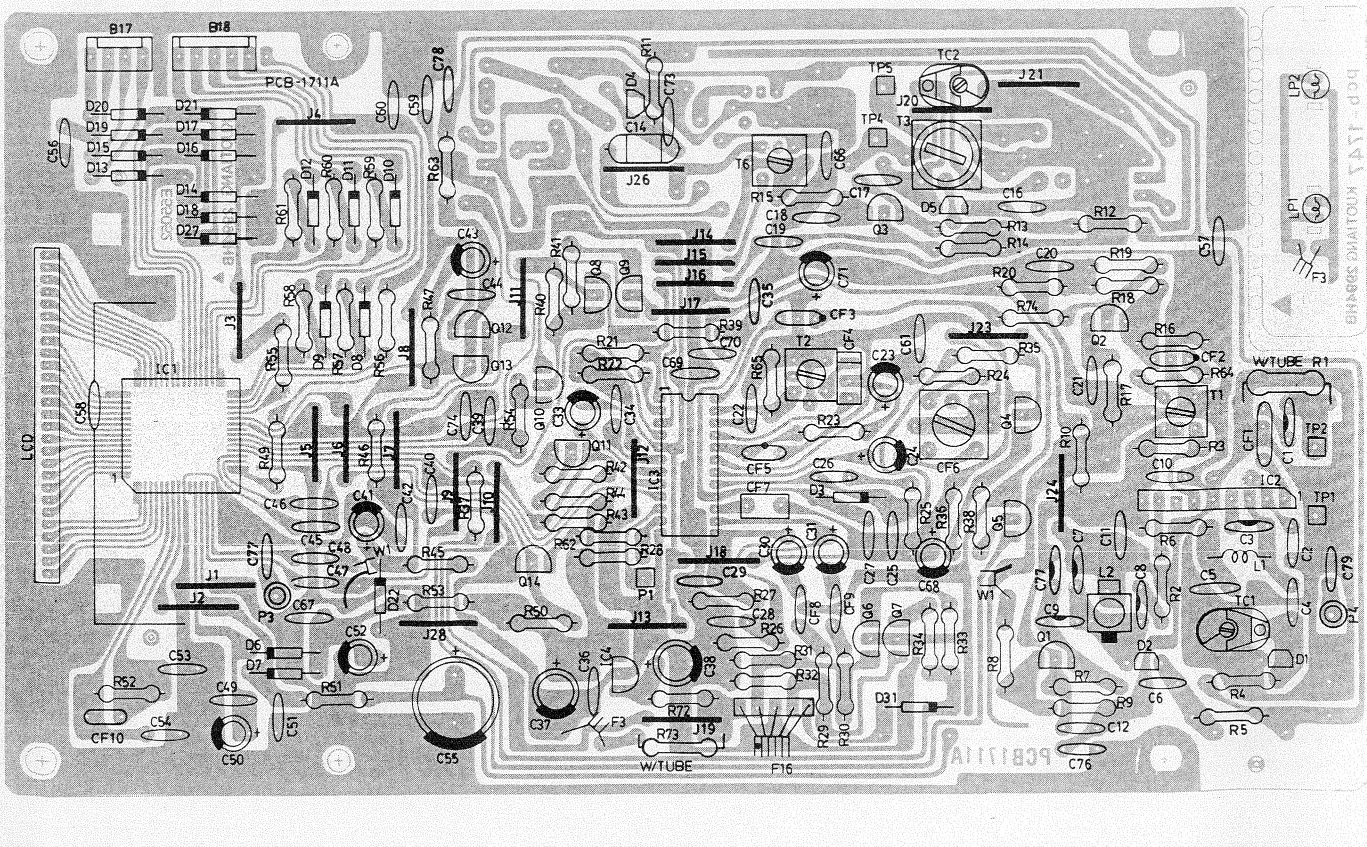
LAMP PCB-1747


B17
B18
LCD
IC1
IC2
IC3
IC4
T1
T2
T3
T4
T5
T6
TC1
TC2
TC3
TP1
TP2
TP4
TP5
LP1
LP2
W/TUBE
PCB1711A

P.C. BOARD DIAGRAM
TUNER PCB-1711 (2 BAND)
LAMP PCB-1747


B18
B17
TO
KO
C72
TC2
TP5
TP4
J21
J20
J22
T3
T6
D2
Q3
R11
D4
C73
C14
J26
C78
C59
C60
J4
D21
D17
D16
D20
D19
D15
D13
C56
D14
D18
D27
D10
R59
D11
R60
D12
R61
R63
C66
C17
R15
C18
C19
C16
R12
R13
R14
J14
J15
J16
J17
Q9
Q8
R41
C43
C44
Q12
Q13
R40
J11
J8
R56
D8
R57
D9
R58
R55
J3
IC1
30
16
1
C58
LCD-717
C57
R19
R18
C20
R20
R74
Q2
BCE
ECB
R16
CF2
R64
R1
T1
TP2
C1
CF1
R3
C10
TP1
IC2
C3
R6
L1
C2
C5
C79
P4
C4
D1
TC1
R4
R5
C75
C76
C12
R9
R7
C6
D2
R2
C8
L2
C9
Q1
R8
C7
C77
C11
R17
C21
R10
J24
Q4
CF6
C24
C26
D3
CF7
CF5
C71
CF3
C35
R39
C70
C69
T2
CF4
C23
C61
R35
R24
J23
R65
C22
R21
R22
J10
C34
C33
Q11
R42
R44
R43
R62
R28
IC3
J12
TP3
Q14
R54
C39
C74
R47
J7
R46
J6
J5
R49
C46
C45
C48
C47
C77
J10
J9
C40
R37
R45
C42
C41
W1
D22
R53
J28
C67
P3
J1
J2
R50
Q5
R38
R36
R25
C68
C25
C27
C31
C30
J18
C29
R27
C28
CF9
CF8
R26
R31
R32
R33
R34
Q7
Q6
D31
R30
R29
B16
MUTE
B+
R72
J19
R73
C38
IC4
C39
C37
F3
J13
C55
C52
D6
D7
R51
C51
C50
C49
C53
R52
CF10
C54
LP2
LP1
F3
1747
PCB1711A

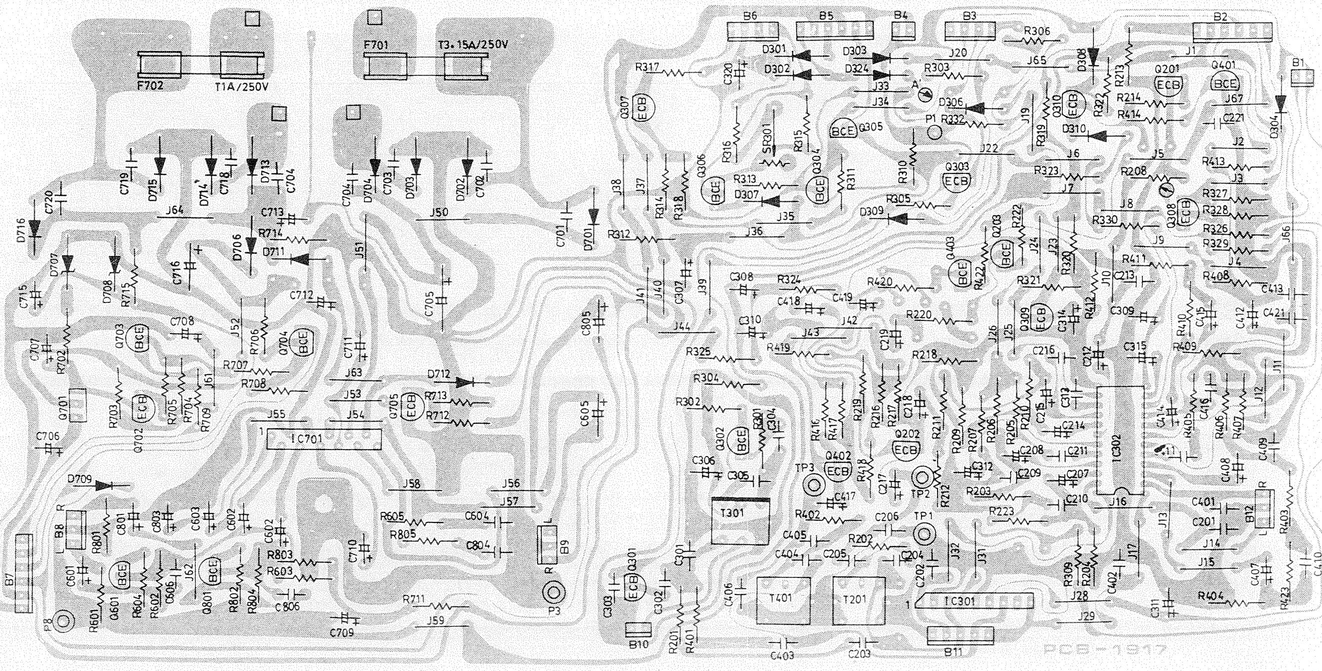
P.C. BOARD PARTS LOCATION
TUNER PCB-1711 (2 BAND)
LAMP PCB-1747


B17
B18
PCB-1711A
D20
D19
D15
D13
C56
D21
D17
D16
D14
D18
D27
J4
C60
C59
C78
R63
D12
R60
D11
R59
D10
R61
D4
R11
C73
C14
J26
TP5
TC2
J21
J20
TP4
T3
T6
C66
R15
C17
C18
C19
D5
Q3
C16
R12
R13
R14
C20
R19
R20
R18
R74
C57
LP2
LP1
F3
C43
C44
R41
Q8
Q9
J14
J15
J16
J17
J11
R40
R47
Q12
Q13
R58
D9
R57
D8
R56
J8
R55
J3
IC1
1
LCD
C58
R49
J5
J6
R46
J7
C40
C42
C74
C39
R54
Q10
C33
C34
Q11
J12
R42
R44
R43
IC3
R21
R22
C69
C35
R39
C70
C71
CF3
CF4
T2
R65
C22
C23
C61
R23
R24
R35
J23
Q2
R16
CF2
R64
W/TUBE
R1
R17
C21
T1
CF1
C1
TP2
R3
C10
C24
CF6
Q4
R10
C26
CF5
CF7
D3
J24
IC2
TP1
C46
C41
C45
C48
C47
W1
R37
J10
J9
C77
J1
J2
P3
C67
R45
D22
R53
Q14
R62
R28
P1
J18
C29
C30
C31
R25
R36
R38
Q5
C11
C7
C3
L1
C2
C79
C5
R6
R27
C28
R26
R50
J13
J28
C27
C25
C68
C71
W1
L2
C9
C8
R2
P4
TC1
C4
D6
D7
C52
C53
R52
C49
R51
C54
CF10
C50
C51
C55
C36
C37
IC4
C38
F3
R72
J19
R73
W/TUBE
CF8
CF9
Q6
Q7
R34
R33
R31
R32
R29
R30
F16
D31
R8
Q1
R7
R9
C12
C76
D2
C6
D1
R4
R5
PCB1711A

COMPO-445(Z)

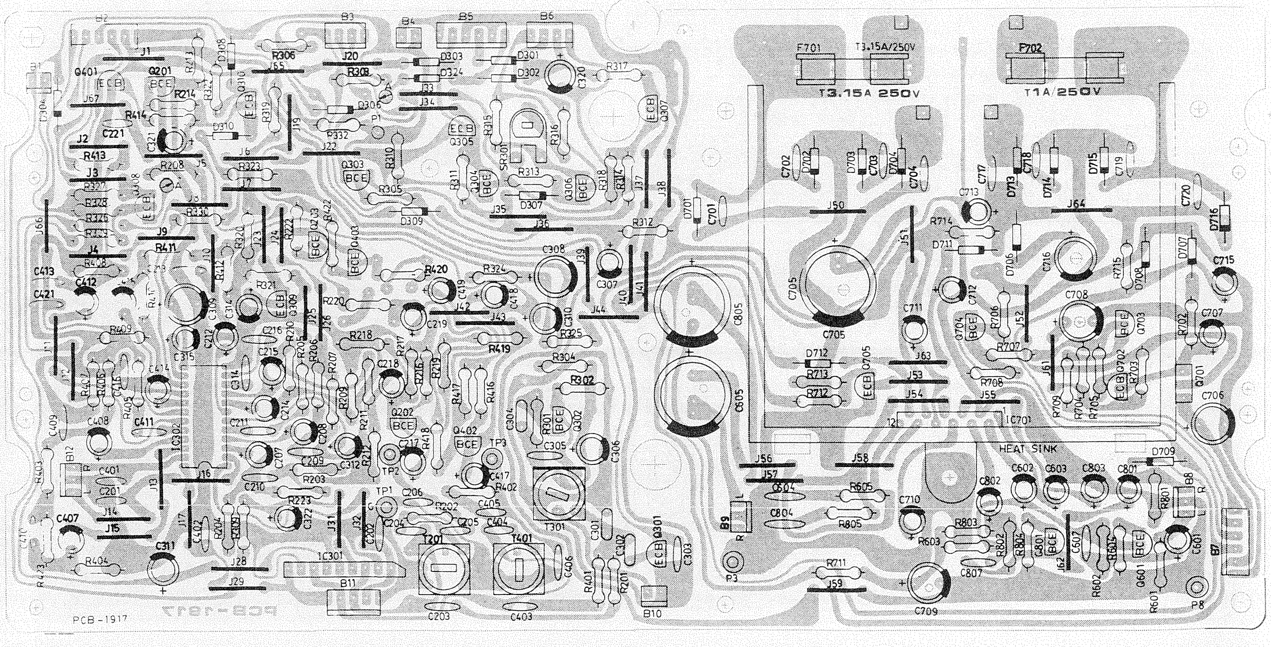
P.C. BOARD DIAGRAM

POWER AMP PCB-1917


F702
T1A/250V
F701
T3.15A/250V
IC701
IC301
IC302
T301
T401
T201
PCB-1917

P.C. BOARD PARTS LOCATION

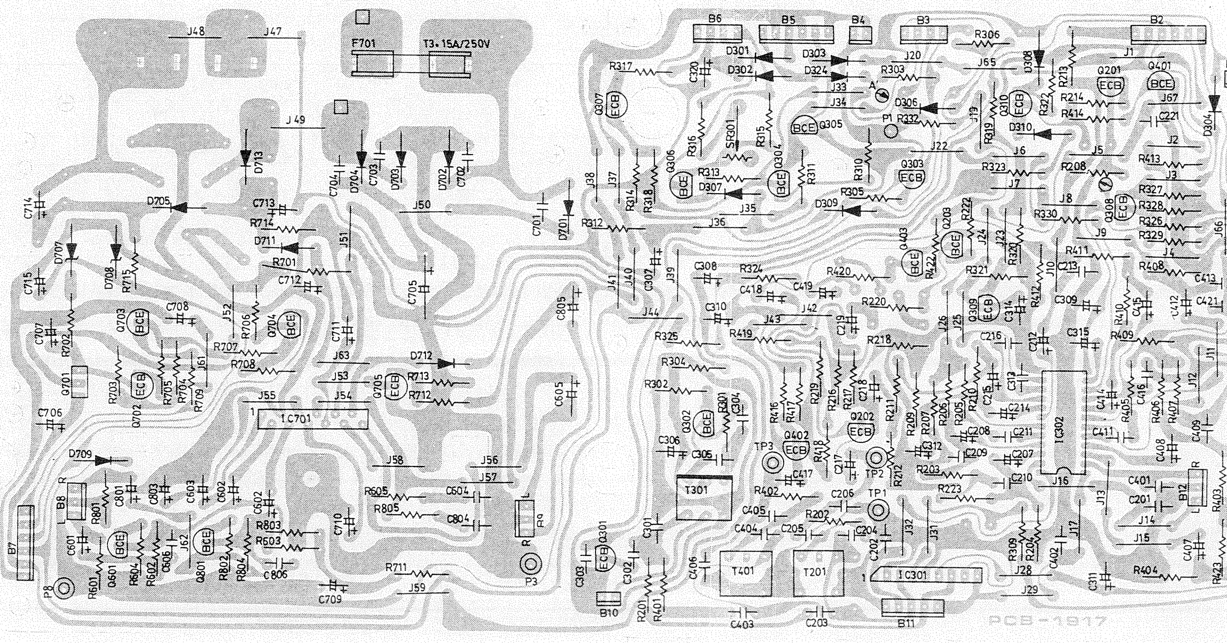
POWER AMP PCB-1917


F701
T3.15A/250V
T3.15A 250V
F702
T1A/250V
IC701
IC301
IC302
HEAT SINK
T201
T401
T301
PCB-1917

COMPO-425(Z)/435(Z)

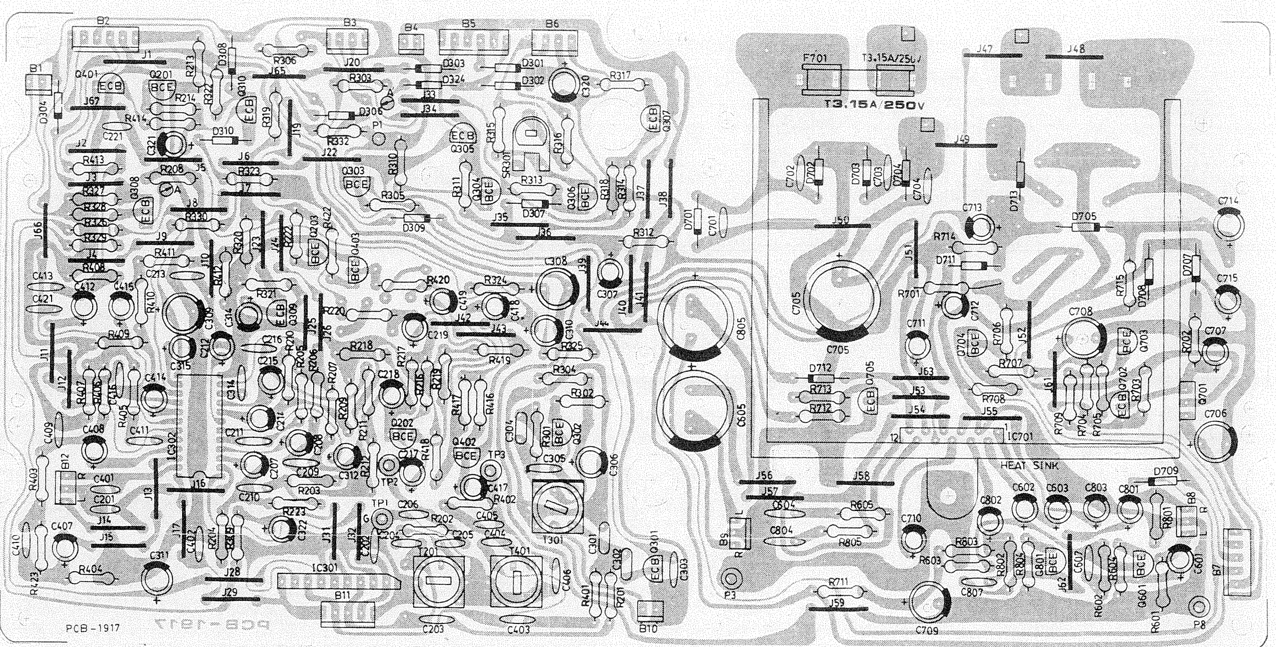
P.C. BOARD DIAGRAM

POWER AMP PCB-1917


F701
T3.15A/250V
IC701
IC301
IC302
T301
T401
T201
PCB-1917

P.C. BOARD PARTS LOCATION

POWER AMP PCB-1917

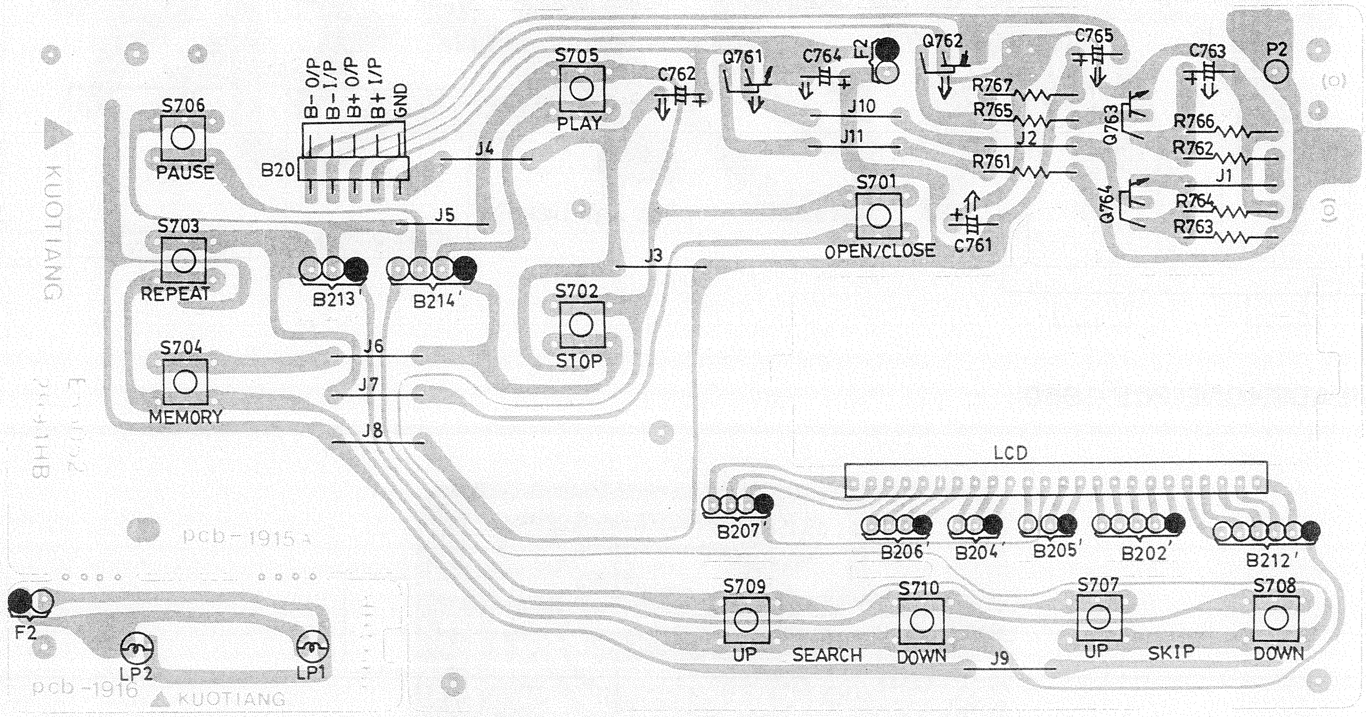

F701
T3.15A/250V
HEAT SINK
IC701
IC301
IC302
T301
T401
T201
PCB-1917

317JAL
AMP PCB-1917

COMPO-425(Z)/435(Z)

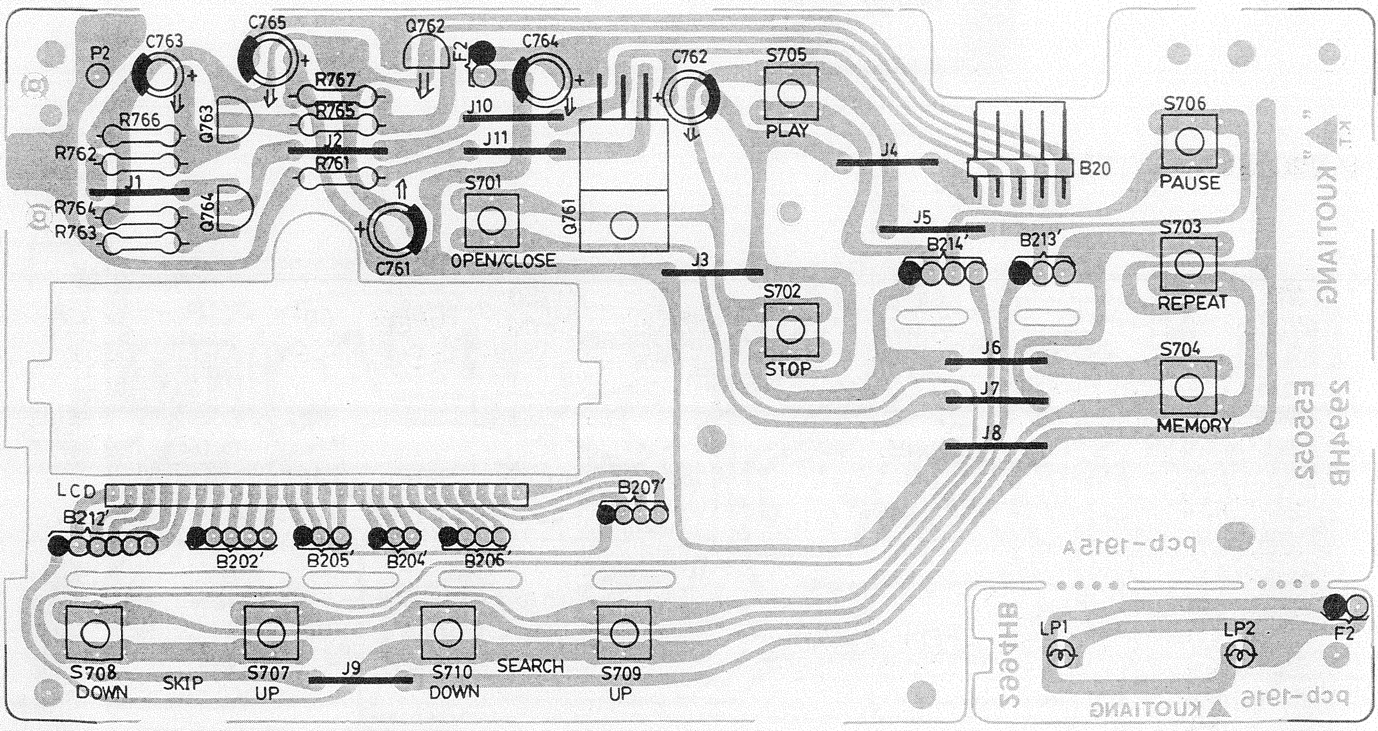
P.C. BOARD DIAGRAM

CD CONTROL PCB-1915/16


S705
PLAY
Q761
C762
C764
F2
Q762
C765
C763
P2
S706
PAUSE
B− O/P
B− I/P
B+ O/P
B+ I/P
GND
B20
J4
J5
J10
J11
R767
R765
J2
R761
Q763
R766
R762
J1
Q764
R764
R763
S701
OPEN/CLOSE
C761
S703
REPEAT
B213'
B214'
J3
S702
STOP
S704
MEMORY
J6
J7
J8
KUOTIANG
LCD
B207'
B206'
B204'
B205'
B202'
B212'
pcb-1915A
S709
UP
SEARCH
S710
DOWN
J9
S707
UP
SKIP
S708
DOWN
F2
LP2
LP1
pcb-1916
KUOTIANG

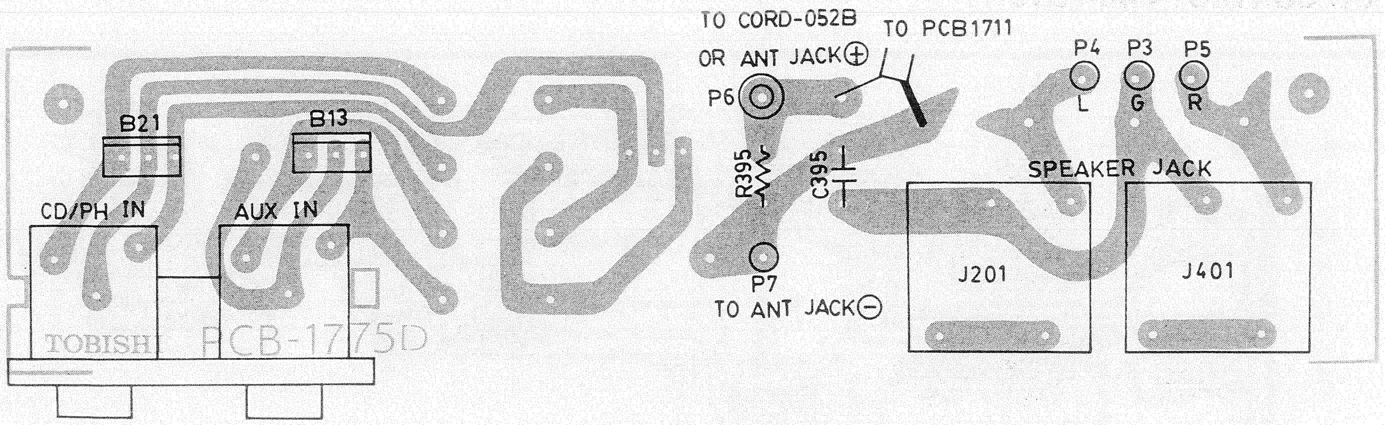
P.C. BOARD PARTS LOCATION

CD CONTROL PCB-1915/16

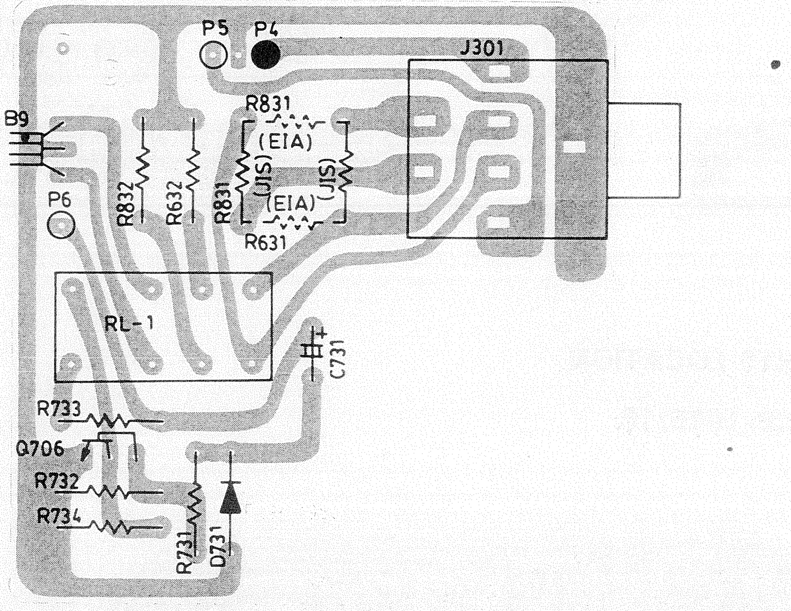

P2
C763
C765
Q762
F2
C764
C762
S705
PLAY
R767
R765
R766
Q763
J10
J11
J2
R761
R762
J1
Q764
R764
R763
S701
OPEN/CLOSE
C761
Q761
J4
B20
S706
PAUSE
KUOTIANG
J5
B214'
B213'
J3
S703
REPEAT
S702
STOP
J6
J7
J8
S704
MEMORY
LCD
B207'
B212'
B202'
B205'
B204'
B206'
pcb-1915A
S708
DOWN
SKIP
S707
UP
J9
S710
DOWN
SEARCH
S709
UP
LP1
LP2
F2
pcb-1916
KUOTIANG

P.C. BOARD DIAGRAM

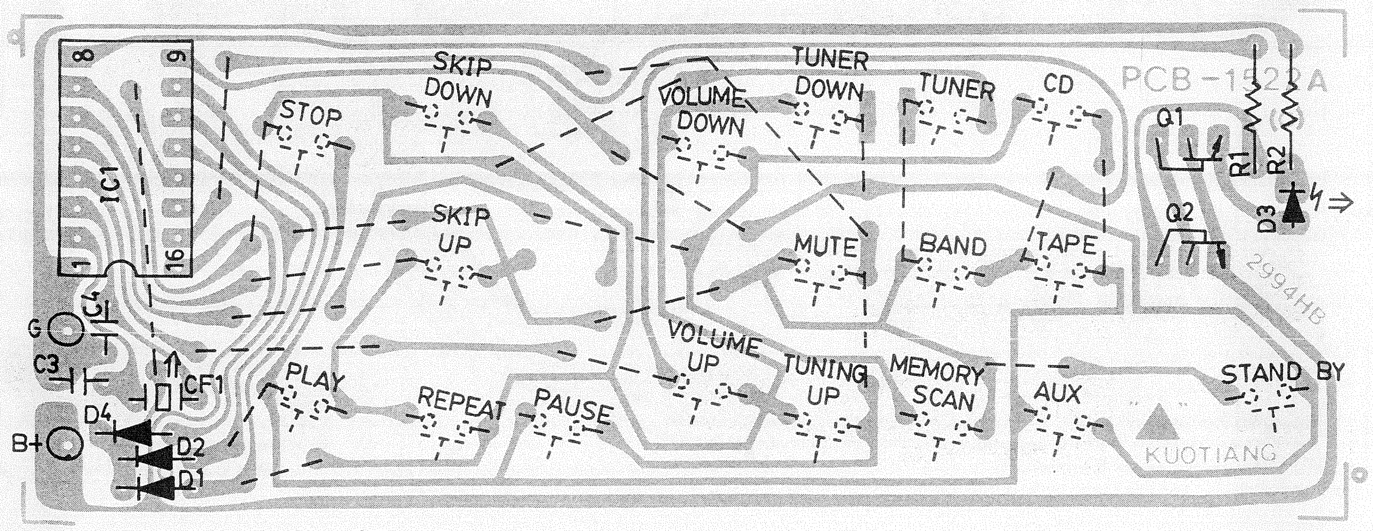
JACK PCB-1775


TO CORD-052B
OR ANT JACK⊕
TO PCB1711
P4
P3
P5
L
G
R
P6
R395
C395
SPEAKER JACK
B21
B13
CD/PH IN
AUX IN
J201
J401
P7
TO ANT JACK⊖
TOBISHI
PCB-1775D

HEADPHONE PCB-1960

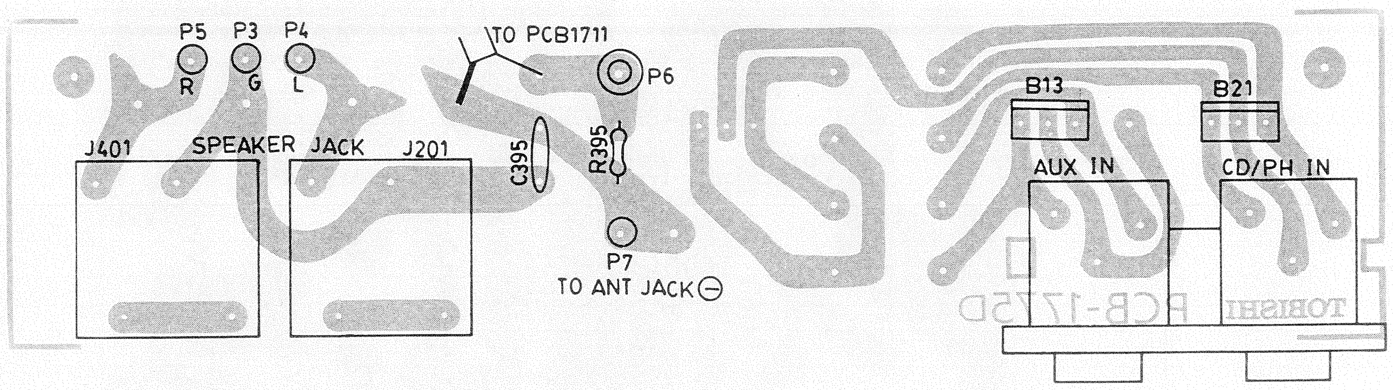

P5
P4
J301
R831
(EIA)
B9
(JIS)
(JIS)
P6
R832
R632
R831
(EIA)
R631
RL-1
C731
R733
Q706
R732
R734
R731
D731

HAND SET PCB-1522


8
9
IC1
1
16
PCB-1522A
STOP
SKIP DOWN
VOLUME DOWN
TUNER DOWN
TUNER
CD
Q1
R1
R2
D3
SKIP UP
MUTE
BAND
TAPE
Q2
2994HB
C4
G
C3
CF1
D4
B+
D2
D1
PLAY
REPEAT
PAUSE
VOLUME UP
TUNING UP
MEMORY SCAN
AUX
STAND BY
KUOTIANG

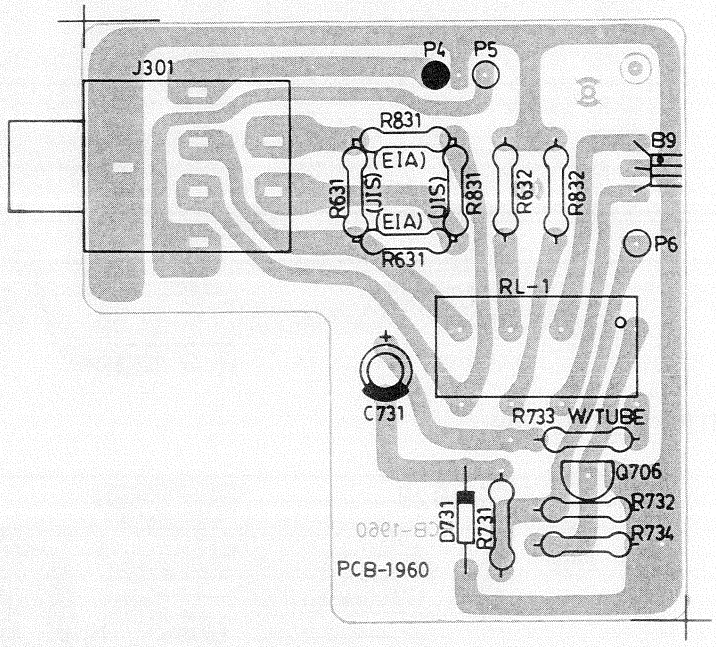
P.C. BOARD PARTS LOCATION

JACK PCB-1775



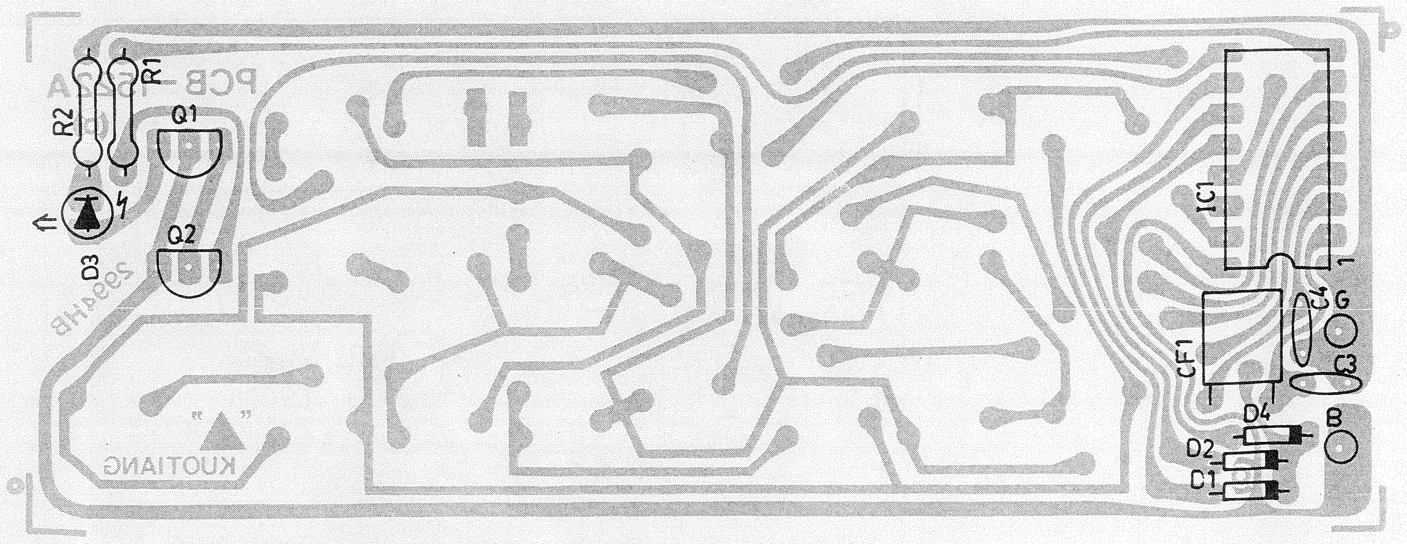
P5
P3
P4
R
G
L
TO PCB1711
P6
J401
SPEAKER JACK
J201
C395
R395
P7
TO ANT JACK ⊖
B13
B21
AUX IN
CD/PH IN

HEADPHONE PCB-1960



P4
P5
J301
R831
(EIA)
(JIS)
R631
R831
R632
R832
B9
P6
R631
RL-1
+
C731
R733 W/TUBE
Q706
R732
R734
D731
R731
PCB-1960

HAND SET PCB-1522

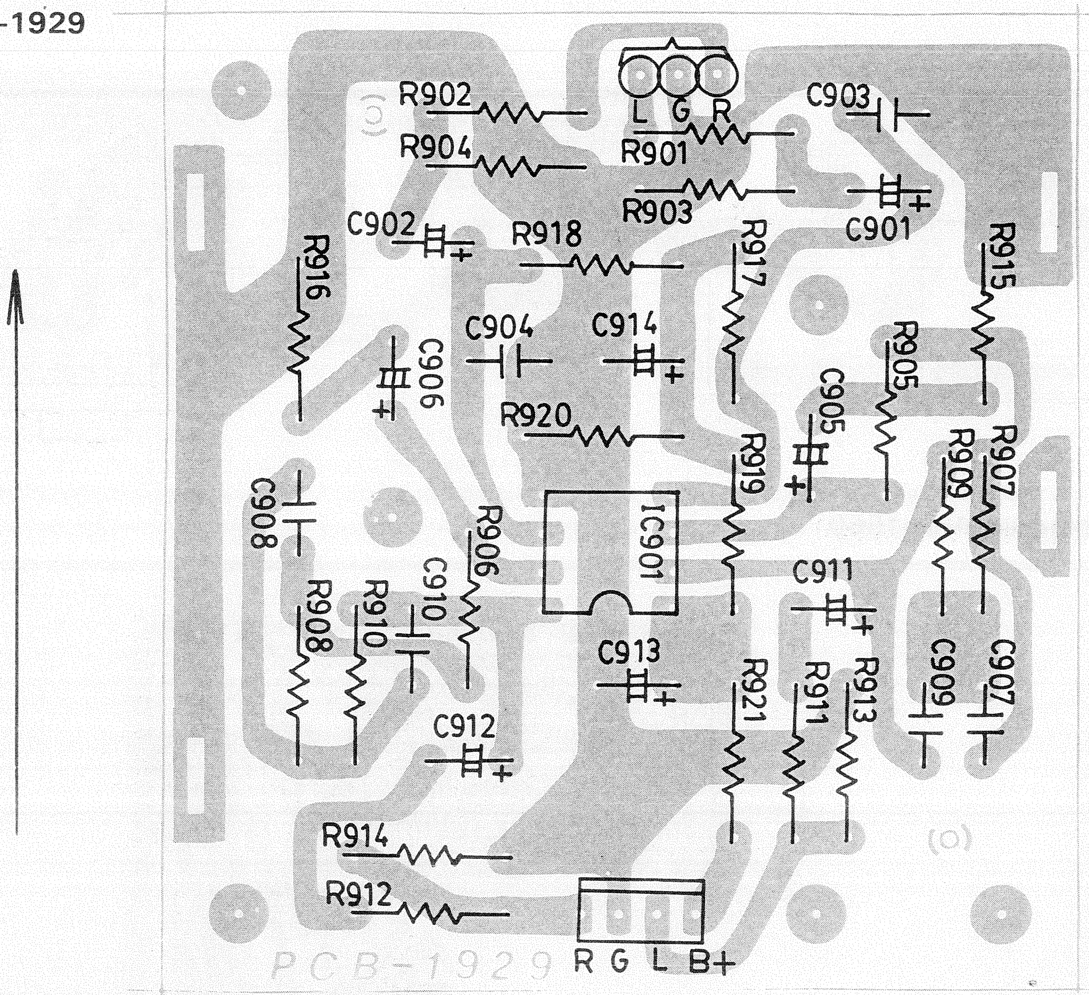


R1
R2
Q1
Q2
D3
IC1
1
C4
G
CF1
C3
D4
B
D2
D1

COMPO-425(Z)/445(Z)

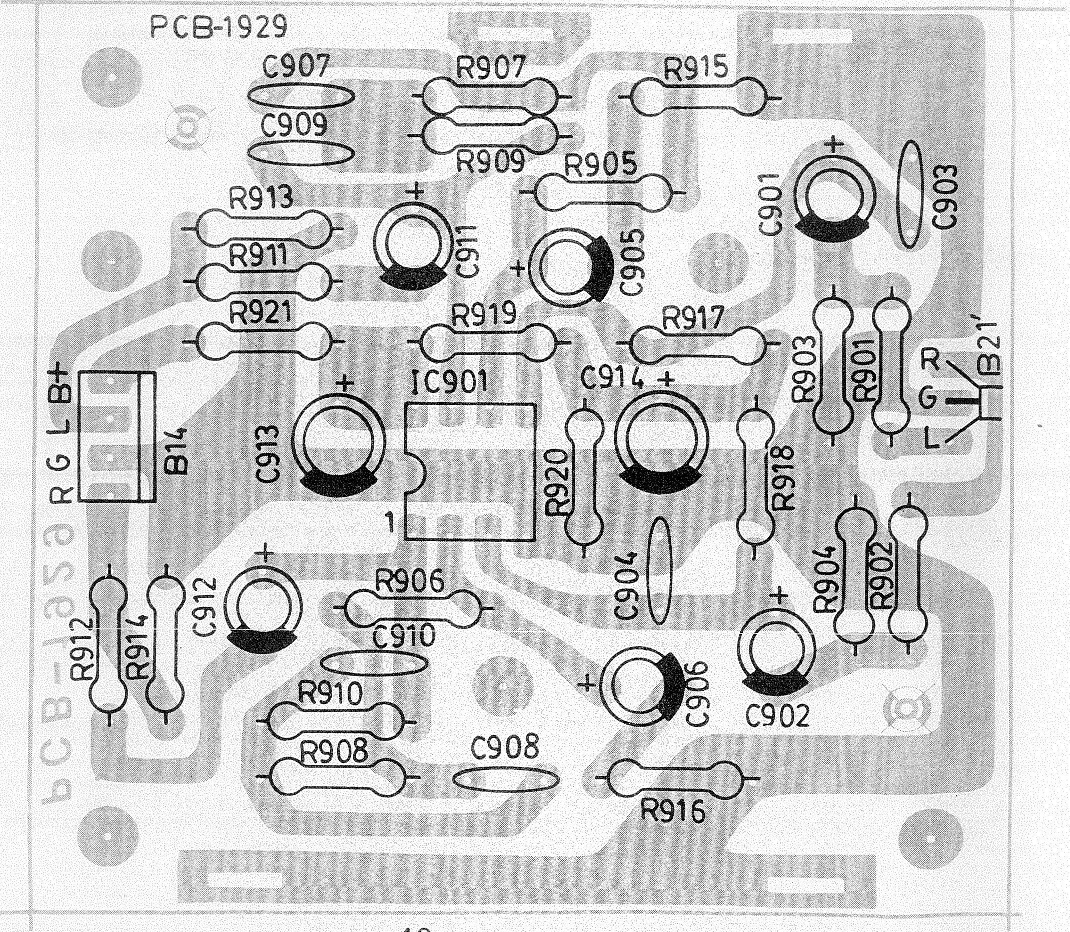
P.C. BOARD DIAGRAM

M.M PCB-1929


R902
R904
L G R
R901
R903
C903
C901
C902
R918
R916
R917
R915
C904
C914
C906
R920
R905
C905
R919
R909
R907
C908
R906
IC901
C910
R908
R910
C911
C913
R921
R911
R913
C909
C907
C912
R914
R912
PCB-1929
R G L B+

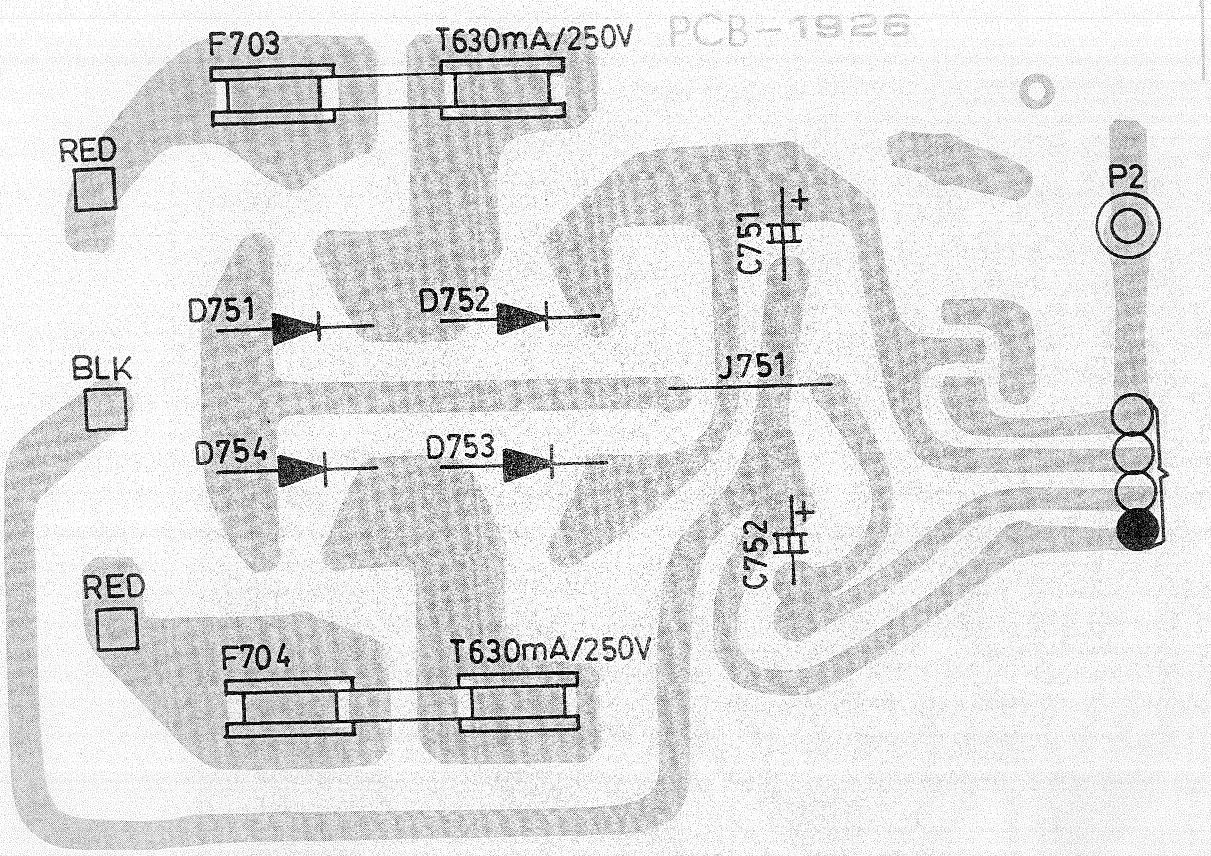
P.C. BOARD PARTS LOCATION

M.M PCB-1929


PCB-1929
C907
R907
R915
C909
R909
R905
R913
C911
C905
C901
C903
R911
R921
R919
R917
R903
R901
R
G
L
B21'
B+
L
G
R
B14
C913
IC901
1
C914
R920
R918
C904
R904
R902
C912
R906
C910
R912
R914
R910
C906
C902
R908
C908
R916
PCB-1929

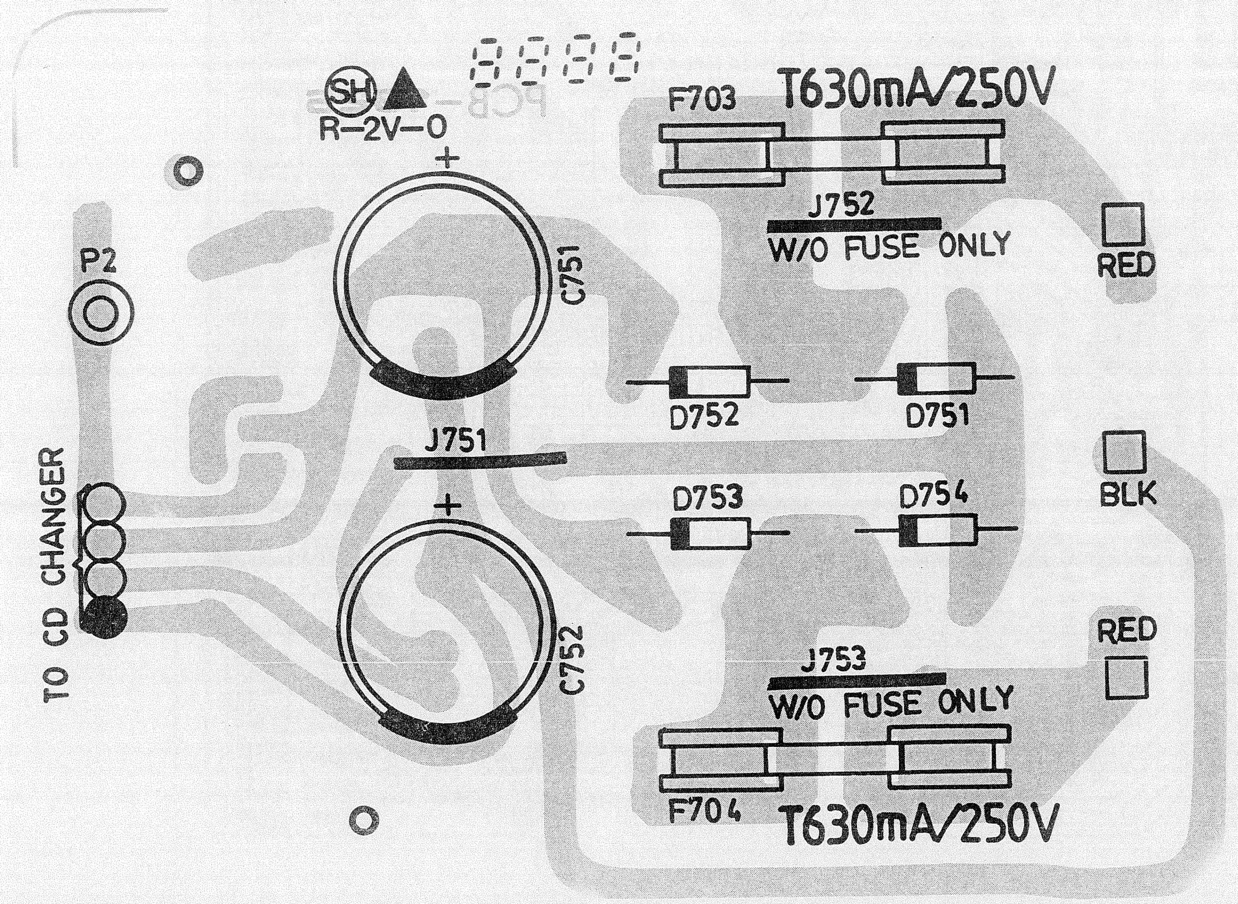
P.C. BOARD DIAGRAM

CD POWER PCB-1926


PCB-1926
F703
T630mA/250V
RED
P2
C751
+
D751
D752
BLK
J751
D754
D753
C752
+
RED
F704
T630mA/250V

P.C. BOARD PARTS LOCATION

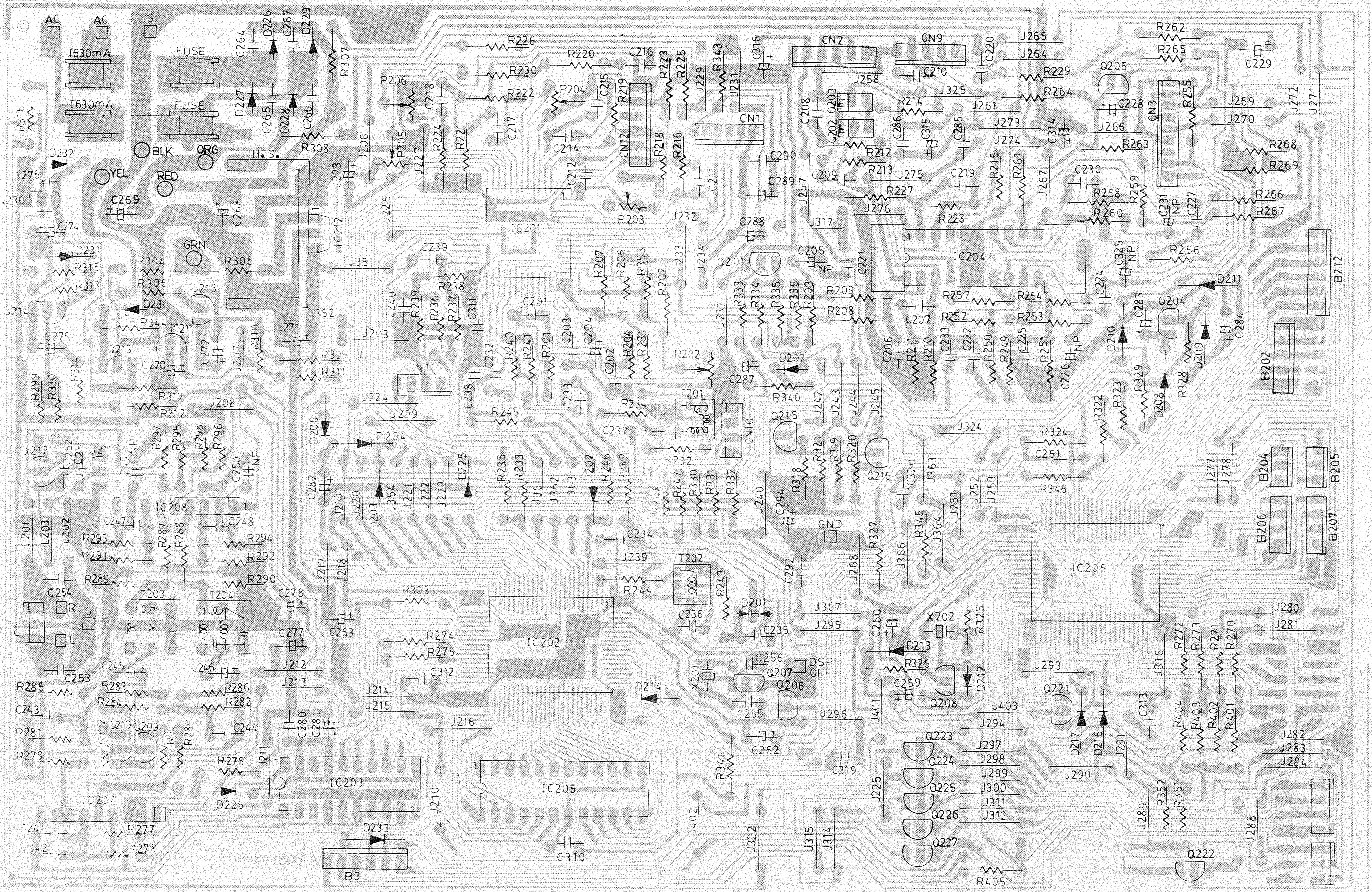
CD POWER PCB-1926


SH
R-2V-0
F703
T630mA/250V
+
J752
W/O FUSE ONLY
RED
P2
C751
D752
D751
J751
D753
D754
BLK
+
TO CD CHANGER
C752
RED
J753
W/O FUSE ONLY
F704
T630mA/250V

COMPO-425(Z)/435(Z)

MODEL: CDKM87CP

CD MAIN PRINTED CIRCUIT BOARD (BOTTOM VIEW)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T630mA
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D229
R307
D227
C265
D228
C266
R308
R316
BLK
ORG
H.S.
D232
C275
YEL
RED
C269
C268
C274
D231
GRN
R304
R305
R315
R306
R313
L213
D230
R344
IC211
C276
Q213
C272
R310
C271
R307
R309
R311
C270
R314
R299
R330
R317
R312
J208
J207
C273
R226
R220
C216
R223
R225
R343
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CN9
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J265
R262
R265
C229
R230
P206
C218
R222
P204
C215
R219
J229
J231
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C210
J264
R229
Q205
R255
J272
J271
C217
R224
R221
P205
C214
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R218
R216
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CN1
C208
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Q202
R214
J325
J261
R264
C228
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J270
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C285
J273
J274
C314
J266
R263
R268
R269
J206
J227
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P203
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C290
R212
R213
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C225
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C287
T201
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J244
J245
R323
R322
J224
J209
R245
R234
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R324
D206
D204
C237
R232
R321
R319
R320
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B206
B207
J219
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J222
J223
IC208
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L203
L202
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R288
R294
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J217
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R290
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R
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T203
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C263
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D201
J367
J295
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X202
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D213
R326
IC202
R274
R275
C277
J212
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C245
C246
R283
R286
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C253
R284
C243
J214
J215
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D214
X201
C256
Q207
DSP OFF
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C259
Q208
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J293
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Q221
C313
C255
J296
J401
J403
J294
R404
R403
R402
R401
R281
Q210
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R280
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C281
J216
C262
Q223
J297
J298
J299
J300
J311
J312
D217
D216
J291
J282
J283
J284
R279
R276
J211
IC203
IC205
R341
C319
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Q226
Q227
J225
J290
IC207
D225
J210
J402
J315
J314
J322
J289
R352
R351
J288
R277
R278
D233
B3
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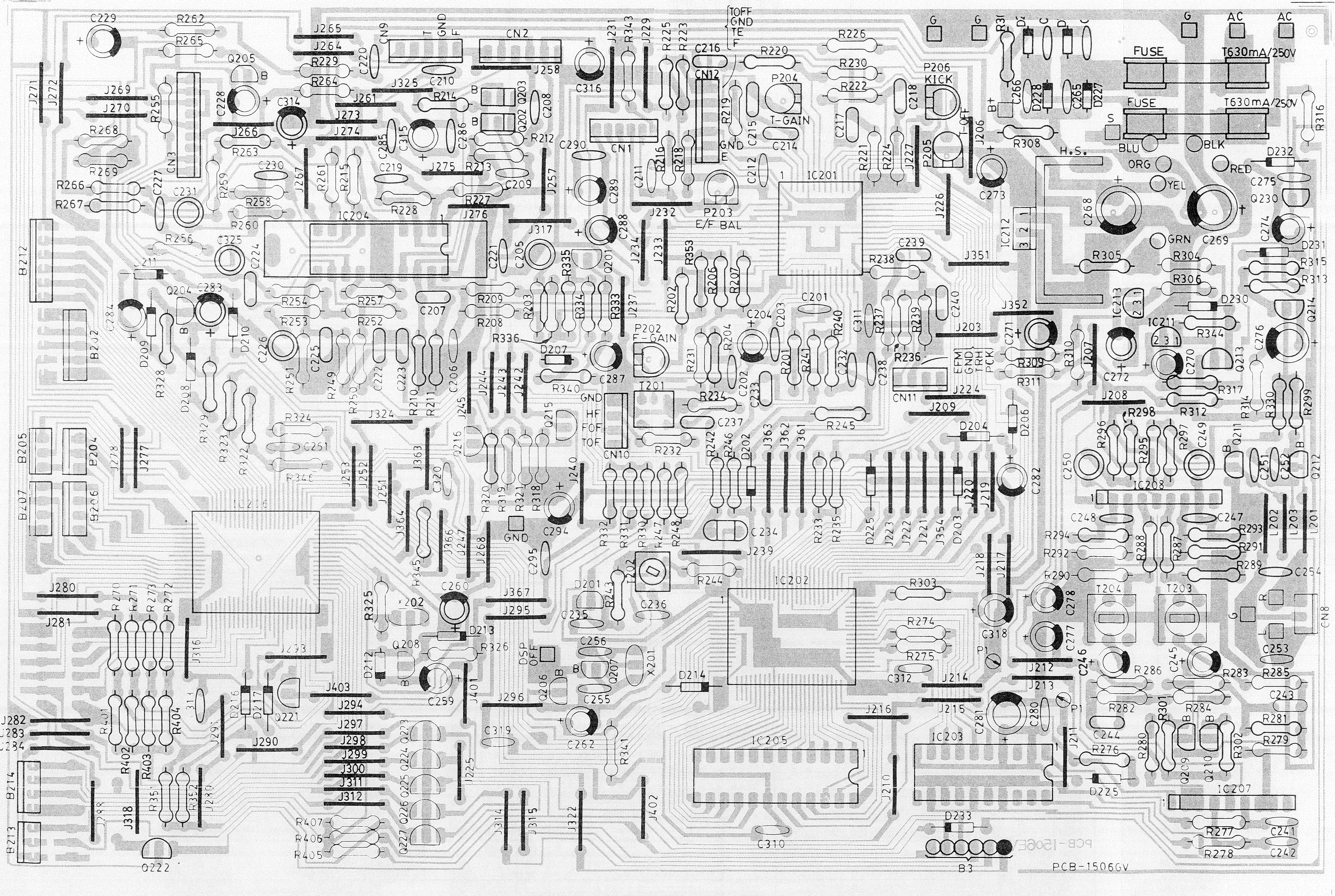
Q222
PCB-1506EV

COMPO-425(Z)/435(Z)

MODEL: CDKM87CP

CD MAIN PRINTED CIRCUIT BOARD (TOP VIEM)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J261
J273
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Q205
C228
C314
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J270
J271
J272
R255
CN3
R268
R269
R266
R267
R263
J266
C227
C231
C230
R259
R258
R260
J267
R261
R215
C285
C315
C219
C286
Q203
Q202
C208
R212
J275
R213
C209
R227
J276
R228
IC204
J257
C316
J231
R343
J229
R225
R223
C216
CN12
TOFF
GND
TE
F
R220
P204
T-GAIN
R219
C215
C214
GND
E
C290
CN1
R216
R218
C211
J232
P203
E/F BAL
C289
C288
Q201
J234
J233
J317
C205
C221
R226
R230
R222
C218
P206
KICK
C217
R221
R224
J227
P205
J206
C273
IC201
R308
C266
D228
C265
D227
R31
D2
C
D
FUSE
T630mA/250V
AC
G
S
BLU
ORG
YEL
BLK
RED
GRN
H.S.
R316
D232
C275
Q230
C268
C269
C274
D231
R315
R313
B212
R211
Q204
C283
C284
D209
D210
R328
D208
R329
R323
R322
C325
C224
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R254
R253
R257
R252
C207
R209
R208
C226
C225
R251
R249
R250
C222
C223
R210
R211
C206
R203
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J226
C239
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R310
J207
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GND
TRH
PCK
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CN11
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C240
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R239
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C203
R204
R231
C202
C233
P202
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R293
R291
R289
C254
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L201
T204
T203
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C260
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J295
D201
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T202
C236
C235
R244
IC202
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C246
R286
C245
R283
R285
C253
J282
J283
J284
R401
R402
R403
R404
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D217
Q221
J291
J290
J293
D212
Q208
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C259
J401
DSP OFF
C256
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Q207
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Q226
Q227
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J216
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J215
C281
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C244
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R280
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R302
IC205
IC203
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J289
Q222
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R406
R405
J314
J315
J322
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R278
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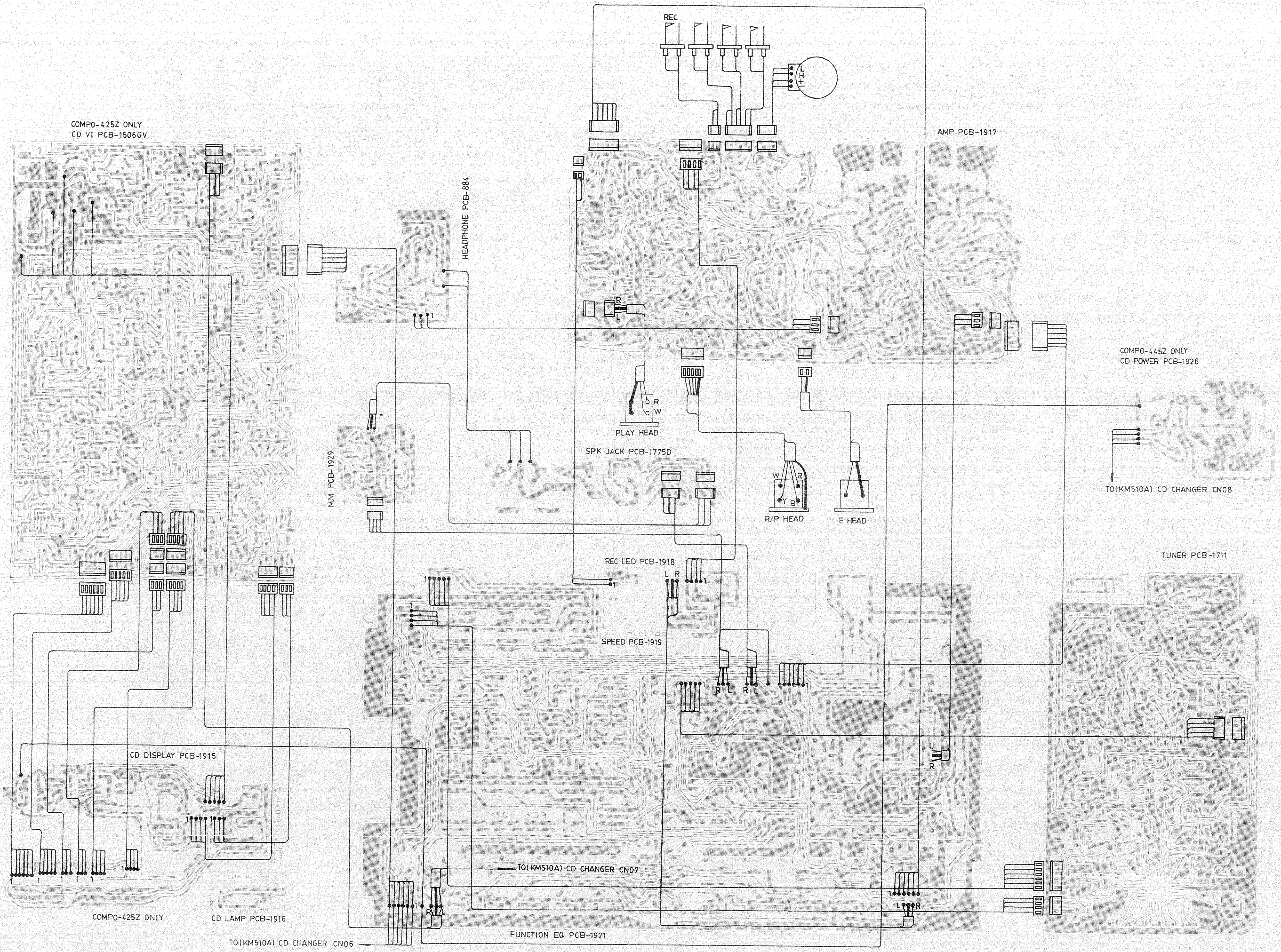
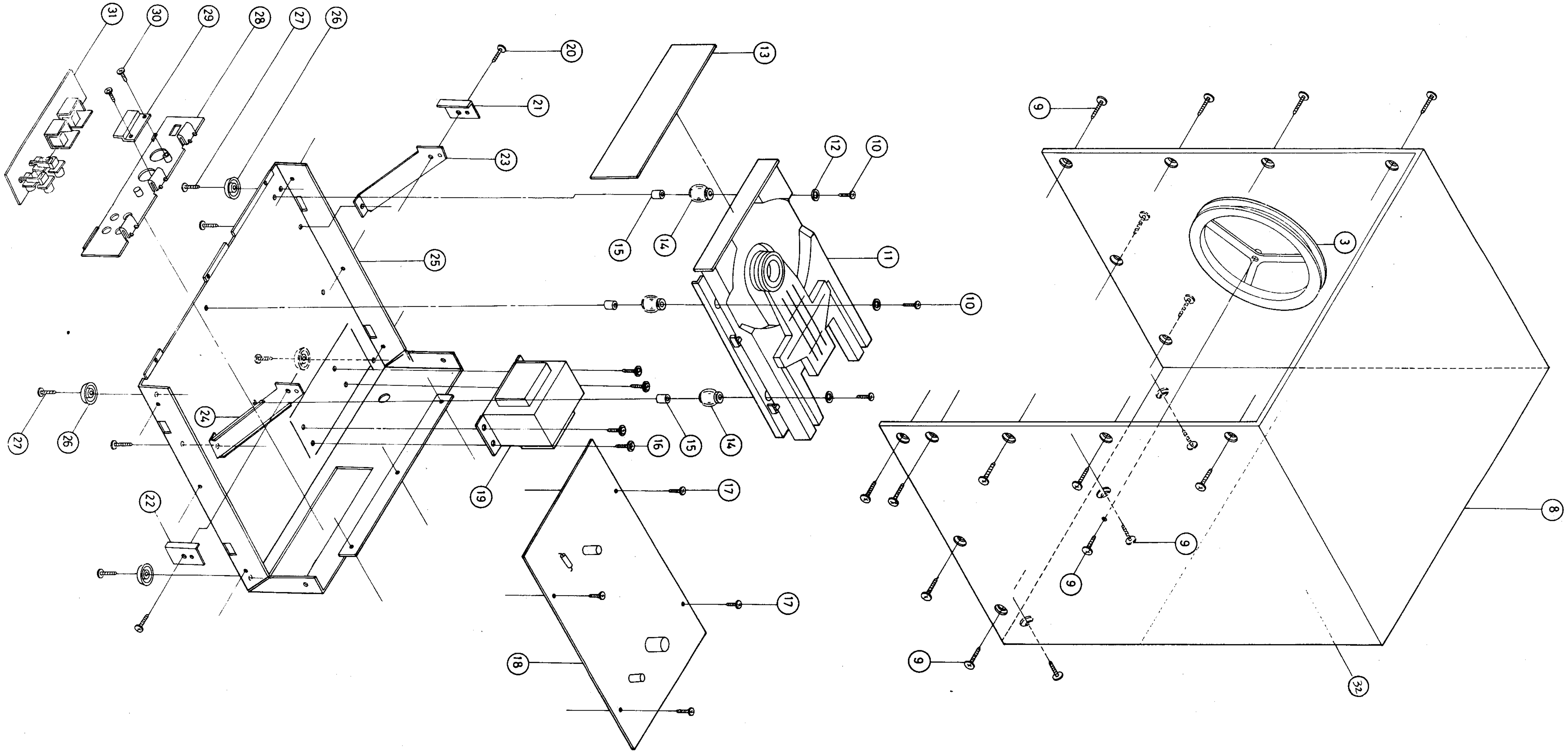
C242
PCB-1506GV

COMPO-425(Z)/435(Z)/445(Z)

WIRE DIAGRAM


COMPO-425Z ONLY
CD VI PCB-1506GV
HEADPHONE PCB-884
REC
AMP PCB-1917
COMPO-445Z ONLY
CD POWER PCB-1926
TO(KM510A) CD CHANGER CN08
PLAY HEAD
SPK JACK PCB-1775D
R/P HEAD
E HEAD
M.M. PCB-1929
TUNER PCB-1711
REC LED PCB-1918
SPEED PCB-1919
CD DISPLAY PCB-1915
COMPO-425Z ONLY
CD LAMP PCB-1916
TO(KM510A) CD CHANGER CN07
FUNCTION EQ PCB-1921
TO(KM510A) CD CHANGER CN06

APPEARANCE AND MISCELLANEOUS PARTS LOCATION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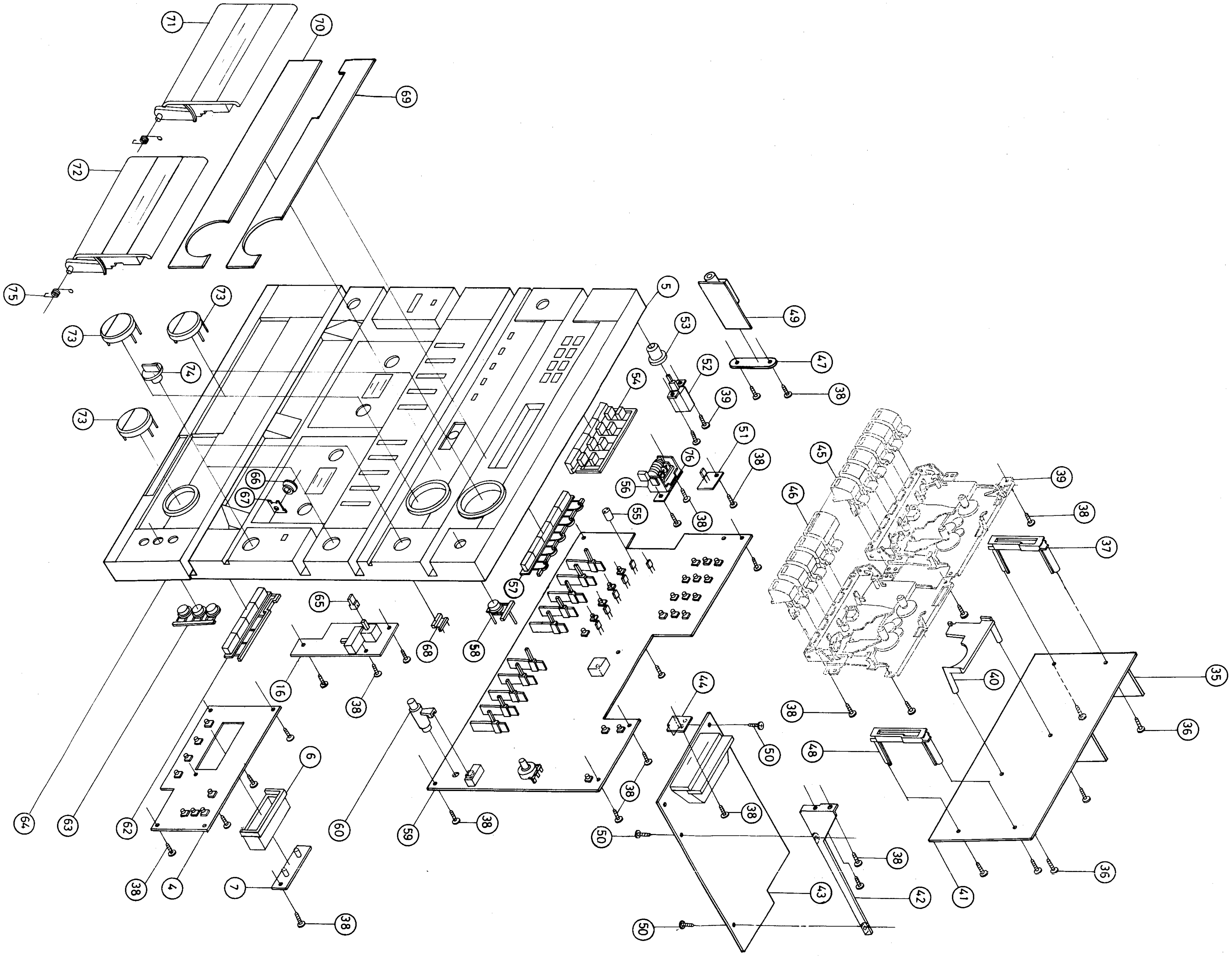
9
32

APPEARANCE AND MISCELLANEOUS PARTS LOCATION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44
38
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64
63
62
6
60
59
38
38
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38
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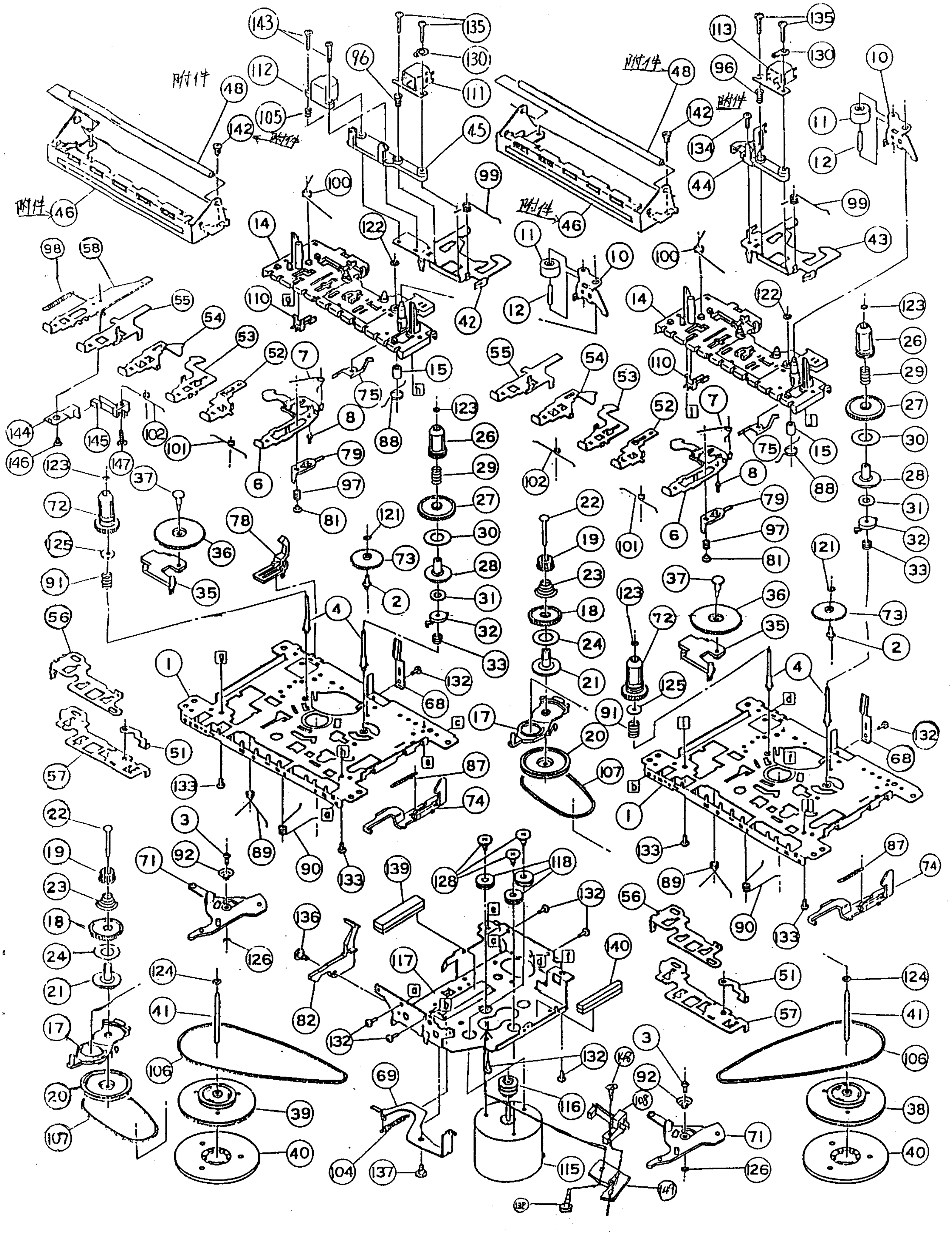
38
50

COMPO-425(Z)/435(Z)/445(Z)

CDS-83WFC07 COMPOSITION OF MECHANISM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附件
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11
134
12
44
100
99
附件
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附件
46
99
14
122
11
10
43
98
58
55
110
100
14
122
123
12
42
26
54
53
52
7
15
55
54
29
75
110
53
27
52
144
8
123
7
145
102
88
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75
15
30
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101
147
79
29
102
8
88
28
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27
22
101
79
31
72
81
121
30
6
97
32
78
19
36
73
28
81
121
125
23
37
33
35
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36
91
18
123
73
32
72
35
56
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132
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87
92
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74
89
132
56
23
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133
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132
148
92
20
69
116
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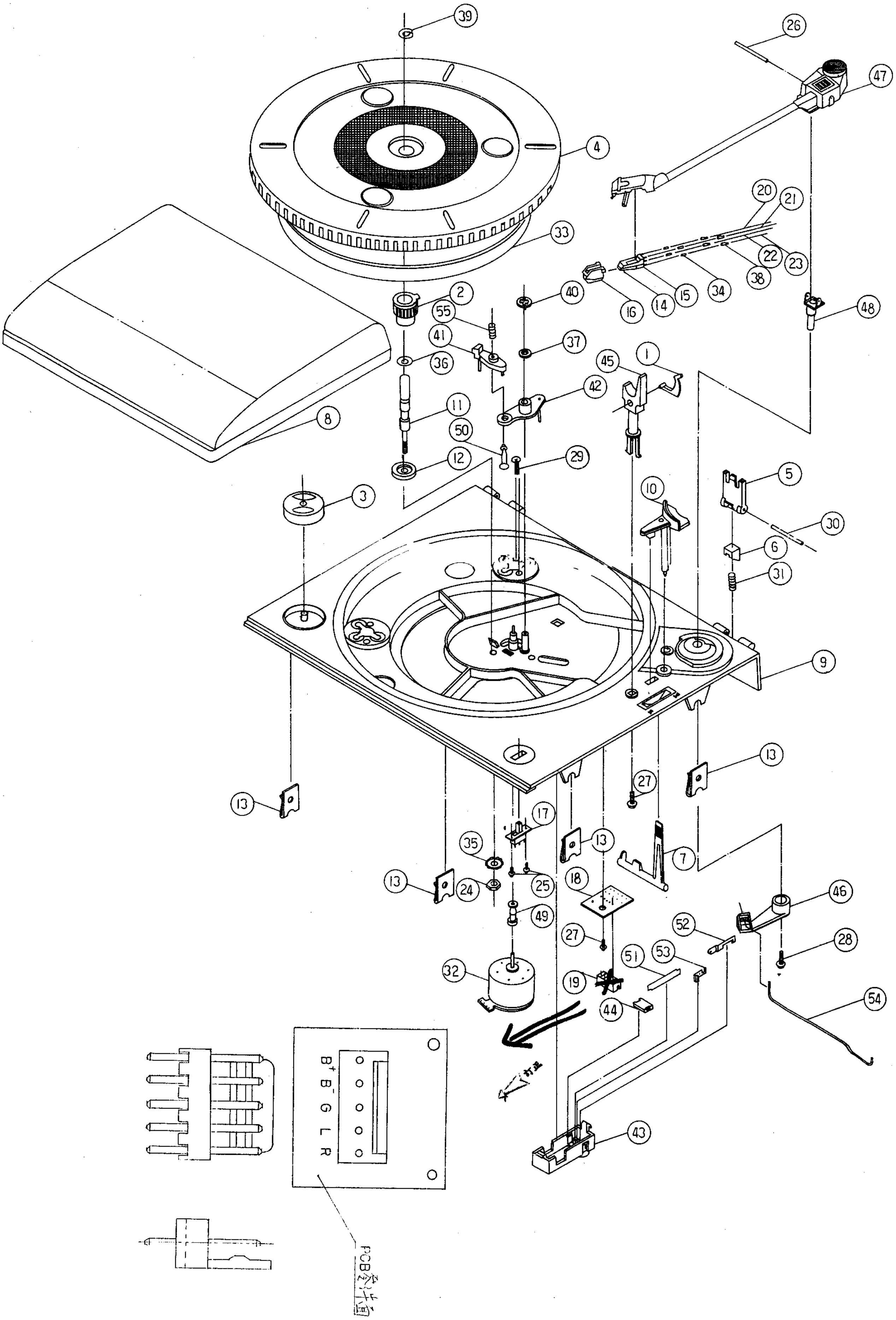
149
132

(COMPO-435(Z))

HPD-650-01 COMPOSITION OF PLAYER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42
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27
17
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7
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18
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46
52
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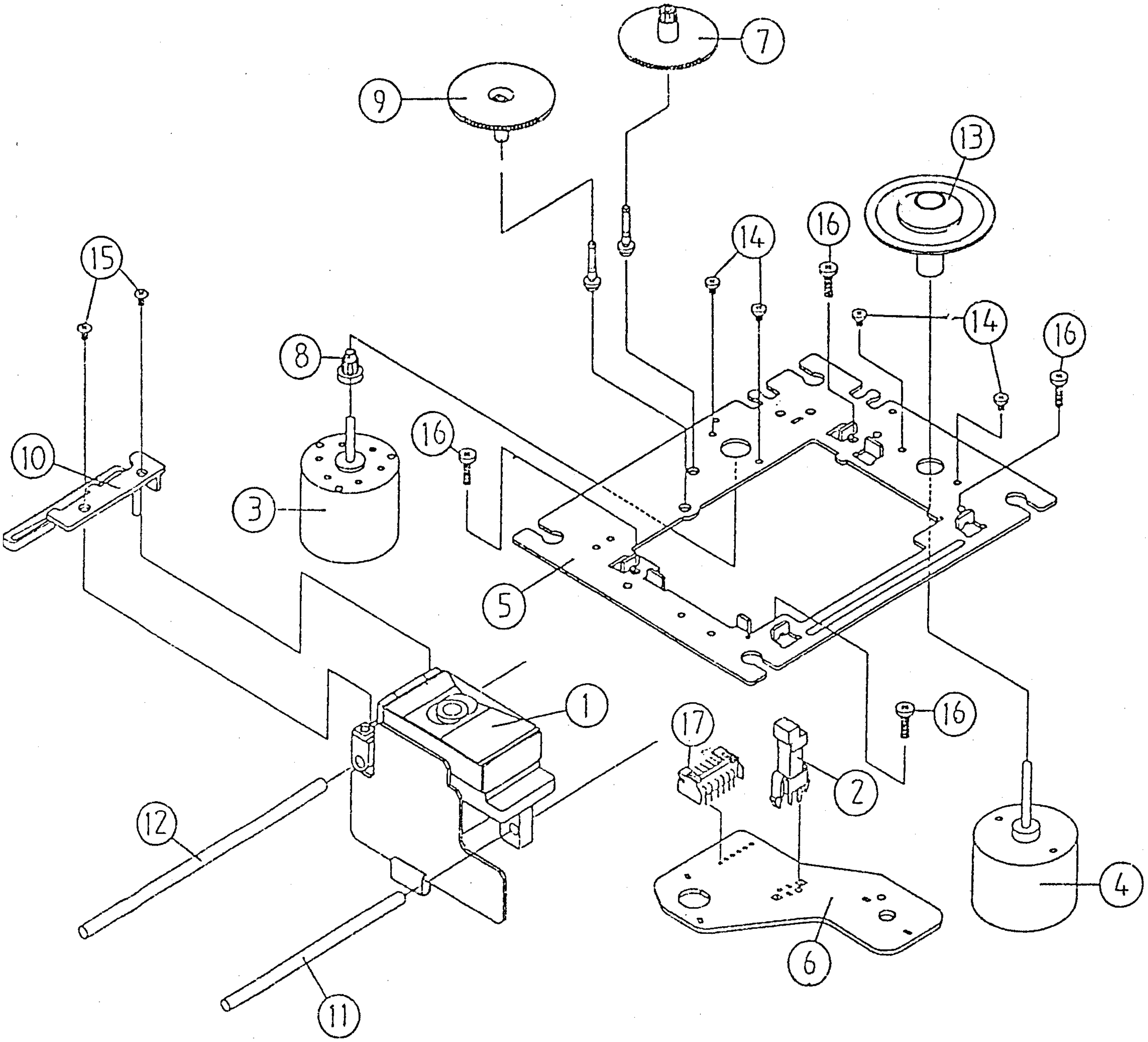
51
32
19
44
54
43
B+
B-
G
L
R
打正
PCB

CD MECHANISM EXPLODED VIEW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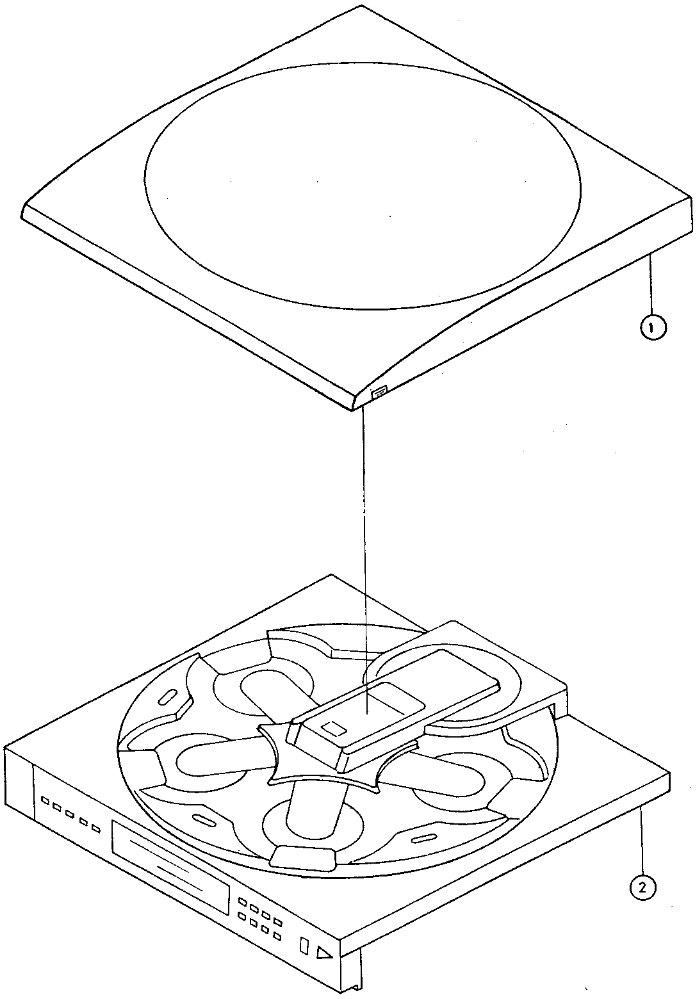
6
11

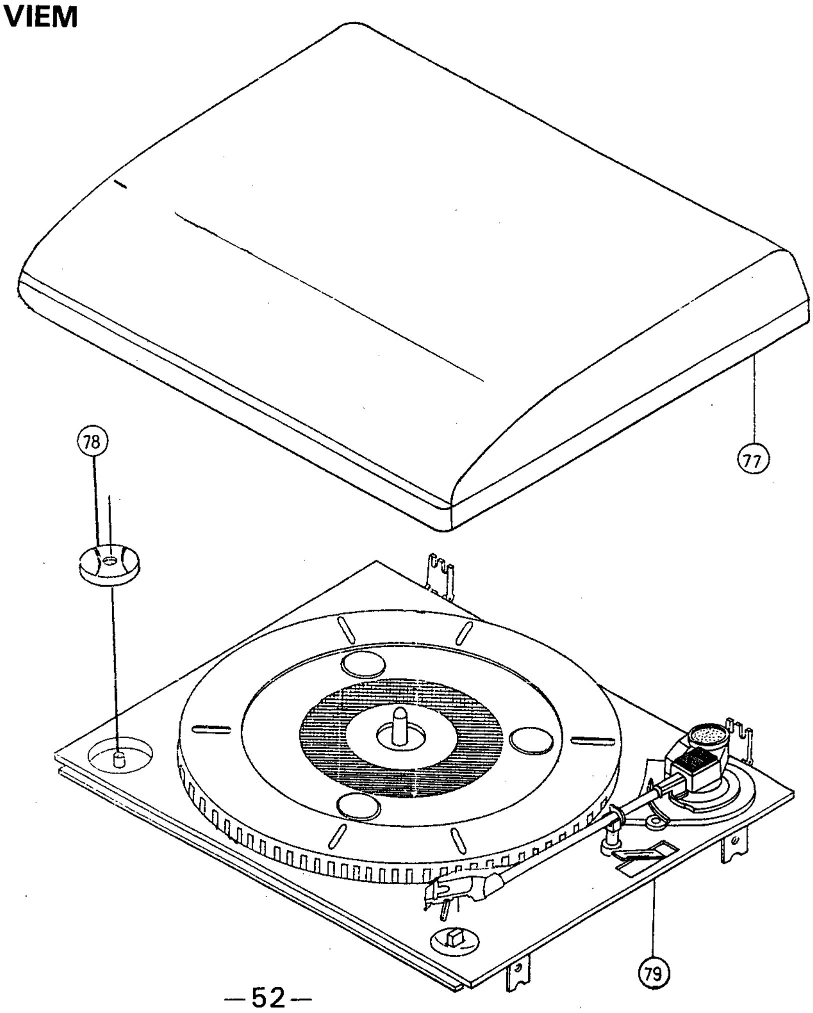
COMPO-445(Z)

CD CHANGER ASS'Y

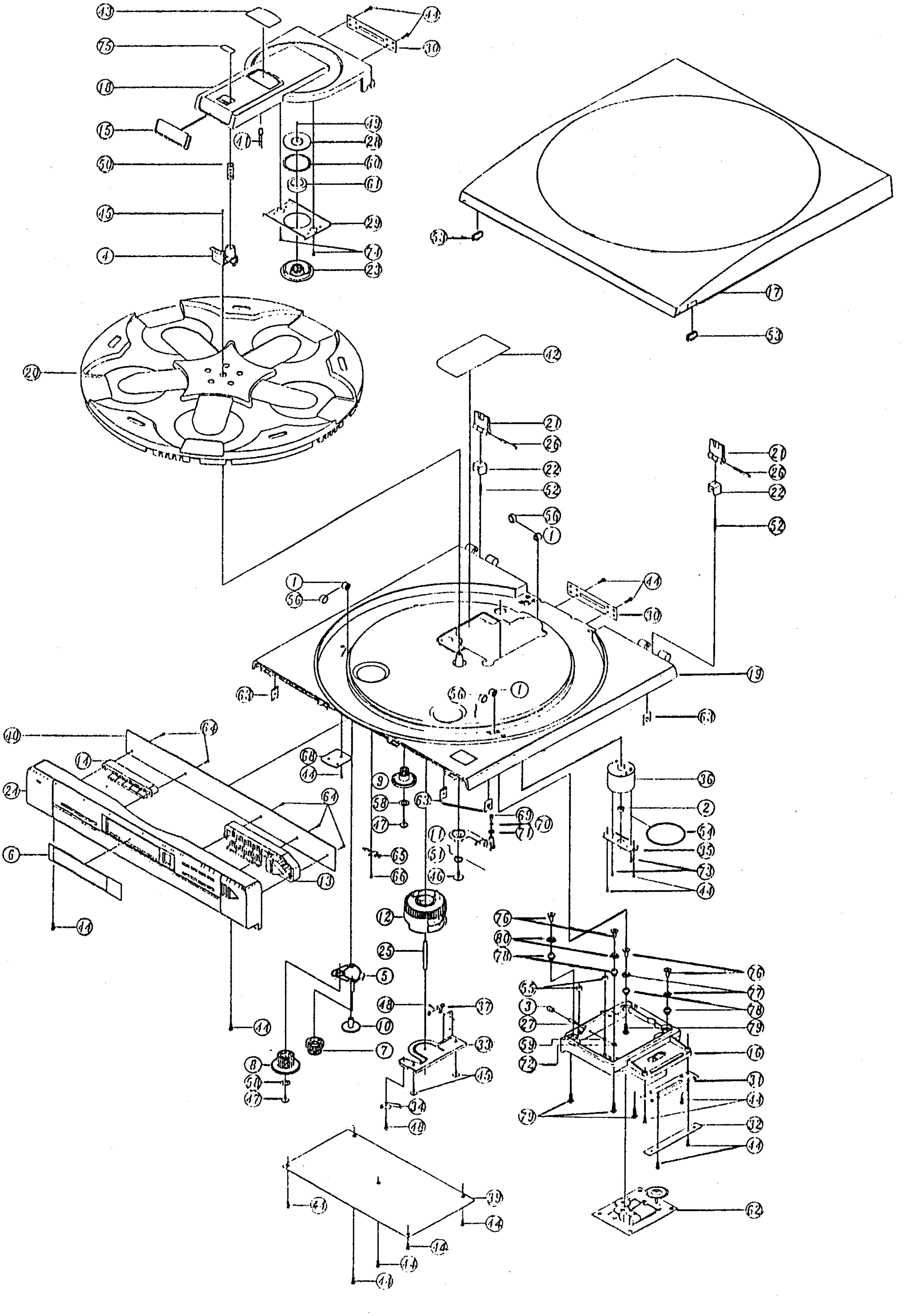


COMPO-435(Z)

PLAYER EXPLODED VIEM



CD CHANGER EXPLODED VIEM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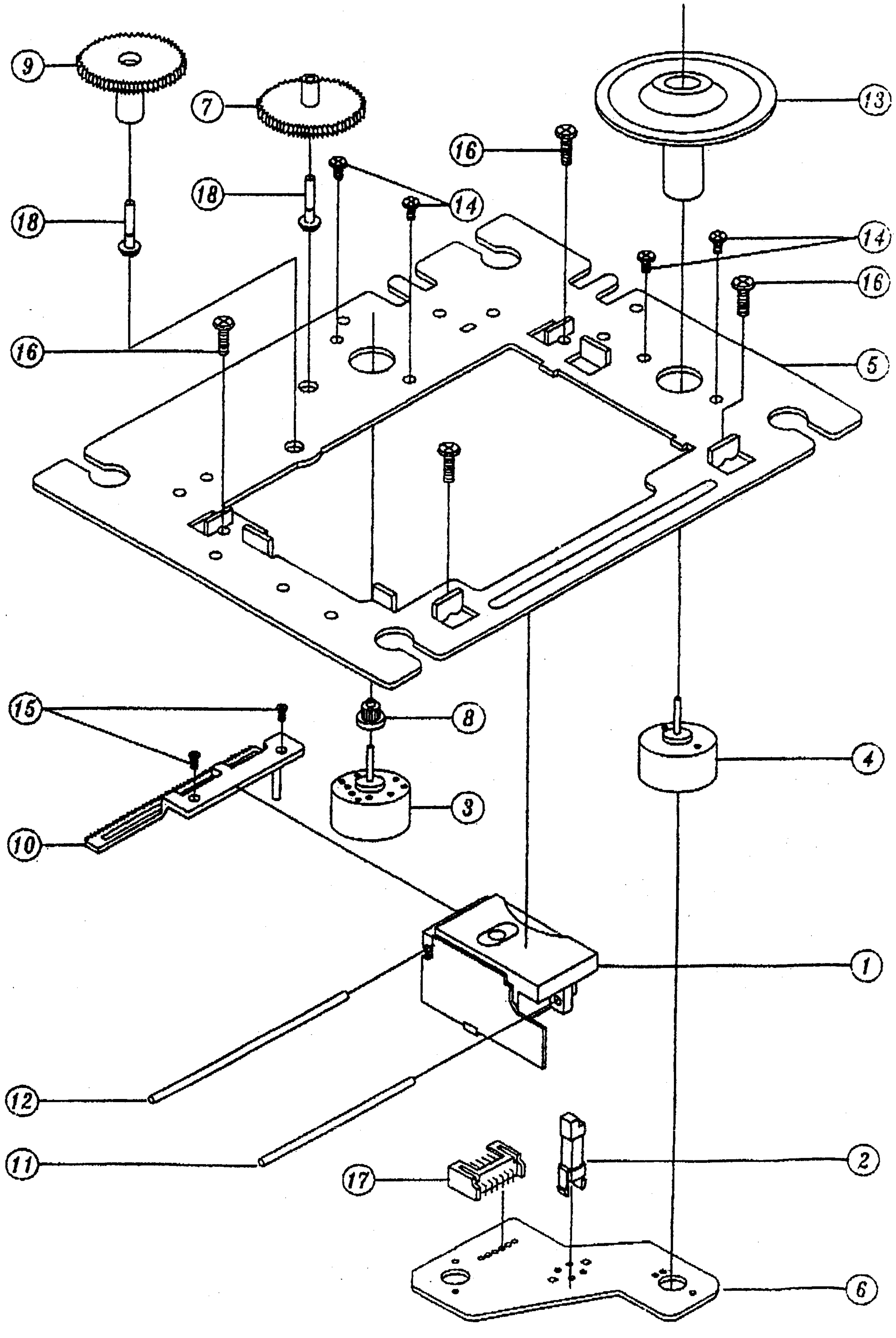
44

CD CHANGER MECHANISM ITEM (62) PORTION EXPLODED VIEW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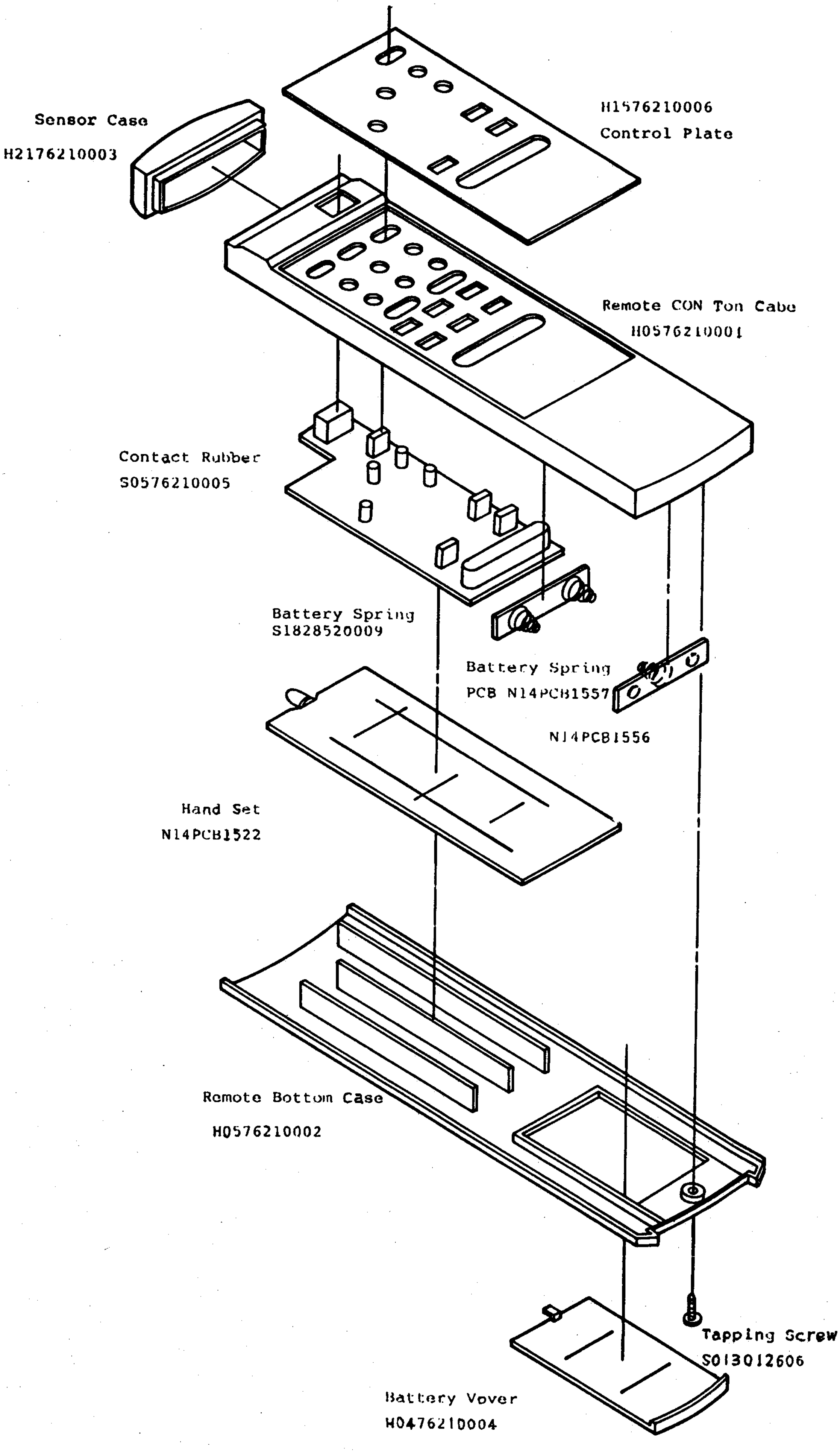
2
11
17
6

COMPO-425(Z)/435(Z)/445(Z)

REMOTE CONTROL EXPLODED VIEM


Sensor Case
H2176210003
H1576210006
Control Plate
Remote CON Ton Cabe
H0576210001
Contact Rubber
S0576210005
Battery Spring
S1828520009
Battery Spring
PCB N14PCB1557
N14PCB1556
Hand Set
N14PCB1522
Remote Bottom Case
H0576210002
Tapping Screw
S013012606
Battery Vover
H0476210004

TUNER ELECTRICAL PARTS LIST (2 BAND)

NO	DESCRIPTION	PARTS NO
R1	Resistor	N6012F*101J
R2	Resistor	N60142*478JL
R3	Resistor	N60142*123JL
R4	Resistor	N60142*104JL
R5	Resistor	N60142*104JL
R6	Resistor	N60142*101JL
R7	Resistor	N60142*104JL
R8	Resistor	N60142*560JL
R9	Resistor	N60142*561JL
R10	Resistor	N60142*470JL
R11	Resistor	N60142*104JL
R12	Resistor	N60142*104JL
R13	Resistor	N60142*105JL
R14	Resistor	N60142*152JL
R15	Resistor	N60142*102JL
R16	Resistor	N60142*561JL
R17	Resistor	N60142*271JL
R18	Resistor	N60142*561JL
R19	Resistor	N60142*331JL
R20	Resistor	N60142*221JL
R21	Resistor	N60142*102JL
R22	Resistor	N60142*562JL
R24	Resistor	N60142*472JL
R25	Resistor	N60142*223JL
R26	Resistor	N60142*222JL
R27	Resistor	N60142*222JL
R28	Resistor	N60142*222JL
R29	Resistor	N60142*182JL
R30	Resistor	N60142*182JL
R31	Resistor	N60142*472JL
R32	Resistor	N60142*472JL
R33	Resistor	N60142*103JL
R34	Resistor	N60142*103JL
R35	Resistor	N60142*101JL
R36	Resistor	N60142*103JL
R37	Resistor	N60142*563JL
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R40	Resistor	N60142*103JL
R41	Resistor	N60142*103JL
R42	Resistor	N60142*473JL
R43	Resistor	N60142*103JL
R44	Resistor	N60142*102JL
R45	Resistor	N60142*471JL
R46	Resistor	N60142*103JL
R47	Resistor	N60142*332JL
R49	Resistor	N60142*472JL
R50	Resistor	N60142*103JL
R51	Resistor	N60142*471JL
R52	Resistor	N60142*392JL
R53	Resistor	N60142*330JL
R54	Resistor	N60142*223JL
R55-62	Resistor	N60142*103JL
R63	Resistor	N60142*181JL
R64	Resistor	N60142*101JL
R65	Resistor	N60142*124JL
R66	Resistor	N60142*103JL

R67	Resistor	N60142*103JL
R68	Resistor	N60142*563JL
R69	Resistor	N60142*563JL
R70	Resistor	N60142*103JL
R71	Resistor	N60142*332JL
R72	Resistor	N60142*470J
R73	Resistor(COMPO-425Z)	N6012F*470J
R73	Resistor(COMPO-445Z)	N6012F*150J
R74	Resistor	N60142*331JL

C1	Ceramic Con.	N65500*680KL
C2	Ceramic Con.	N65503*102ZL
C3	Ceramic Con.	N65505*050DL
C4	Ceramic Con.	N65503*102ZL
C5	Ceramic Con.	N65503*223ZL
C6	Ceramic Con.	N65503*222ZL
C7	Ceramic Con.	N65505*150DL
C8	Ceramic Con.	N65505*270DL
C10	Ceramic Con.	N65503*223ZL
C11,12	Ceramic Con.	N65503*223ZL
C14	Poly Con.	N63501*471J
C15	Ceramic Con.	N65503*223ZL
C16	Ceramic Con.	N65503*473ZL
C17	Ceramic Con.	N65505*100DL
C18	Ceramic Con.	N65503*223ZL
C19	Ceramic Con.	N65503*103ZL
C20	Ceramic Con.	N65503*223ZL
C21	Ceramic Con.	N65503*223ZL
C22	Ceramic Con.	N65503*473ZL
C23,24	Electrolytic Con.	N67350*0100L
C25	Semi Cdtr. C.C.	N75253*683ML
C26	Semi Cdtr. C.C.	N75253*823ML
C27	Ceramic Con.	N65503*473ZL
C28	Ceramic Con.	N65503*103ZL
C29	Ceramic Con.	N65503*103ZL
C30,31	Special EC	N76500*0478L
C33	Special EC	N76500*0478L
C34	Ceramic Con.	N65503*563ZL
C35,36	Ceramic Con.	N65503*223ZL
C37,38	Electrolytic Con.	N67160*0101L
C39	Ceramic Con.	N65500*391KL
C40	Ceramic Con.	N65500*391KL
C41	Electrolytic Con.	N67160*0470L
C42	Ceramic Con.	N65503*223ZL
C43	Special EC	N76500*0338L
C44	Mylar Con.	N64500*102KL
C45-47	Ceramic Con.	N65503*103ZL
C48	Ceramic Con.	N65503*102ZL
C49	Semi Cdtr. C.C.	N75253*104ML
C50	Electrolytic Con.	N67160*0470L
C51	Semi Cdtr. C.C.	N75253*104ML
C52	Electrolytic Con.	N67160*0470L
C53-54	Ceramic Con.	N65505*330JL
C55	Electrolytic Con.	N67160*0102
C56	Ceramic Con.	N65500*121KL

C57	Ceramic Con.	N65503*223ZL
C58	Ceramic Con.	N65500*121KL
C59	Ceramic Con.	N65503*223ZL
C60	Ceramic Con.	N65500*121KL
C61	Ceramic Con.	N65500*331KL
C62	Ceramic Con.	N65500*560KL
C63	Ceramic Con.	N65505*100DL
C64	Ceramic Con.	N65505*050DL
C65	Poly Con.	N63501*271J
C66,67	Ceramic Con.	N65503*223ZL
C68	Electrolytic Con.	N67350*0100L
C69,70	Ceramic Con.	N65503*223ZL
C71	Electrolytic Con.	N67350*0100L
C73	Ceramic Con.	N65505*150DL
C75	Ceramic Con.	N65505*270DL
C76	Ceramic Con.	N65505*470DL
C77	Ceramic Con.	N65500*121KL
C78	Ceramic Con.	N65503*223ZL
IC1	IC	N56TC**9304027
IC2	IC	N56TA**7358AP
IC3	IC	N56TA**8132N
IC4	IC	N56TA**78L006P
Q1	Transistor	N572SC*1923***L
Q2	Transistor	N572SC*1359B**L
Q3	Transistor	N572SK*161Y***L
Q4	Transistor	N572SA*719R***L
Q5-8	Transistor	N572SC*828R***L
Q9	Transistor	N572SA*719R***L
Q10-14	Transistor	N572SC*828R***L
Q15	Transistor	N572SC*2878***L
D1,2	Diode	N551SV*101
D3	Diode	N551N**4148***L
D4,5	Diodr	N551SV*149
D6-21	Diode	N551N**4148***L
D22	Zener Diode	N55VZ**091****L
D23-26	Diode	N551N**4148***L
D27	Diode	N551N**4148***L
D31	Diode	N551N**4148***L
TC1	Trimer Con.	N66TCT*023
TC2,3	Trimer Con.	N66TCT*024
L1	FM RF Coil	N73THH*003
L2	FM OSC Coil	N73FAL*015
T1	FM IFT	N80THF*041
T2	MW IFT	N80MF**027
T3	AM ANT Coil	N80MF**060
T4	AM OSC Coil	N80OSC*0610
T5	LW IFT	N80MF**070
T6	LW OSC Coil	N80OSL*0810
CF1	Band Pass Filter	N93CF**603A
CF2,3	FM CF	N93CF**102A
CF4	AM CF	N93CF**431

CF5	FM CF	N93CF**129C
CF6	Filter	N93CF**701
CF7	MPX CF	N93CF**410
CF8,9	Notch Filter	N93CF**302
CF10	Crystal	N93CF**7200
PCB	Tuner PCB	N14PCB*1711

TUNER ELECTRICAL PARTS LIST (3 BAND)

NO	DESCRIPTION	PARTS LIST
R1	Resistor	N6012F*101J
R2	Resistor	N60142*478JL
R3	Resistor	N60142*123JL
R4,5	Resistor	N60142*104JL
R6	Resistor	N60142*101JL
R7	Resistor	N60142*104JL
R8	Resistor	N60142*560JL
R9	Resistor	N60142*561JL
R10	Resistor	N60142*470JL
R11,12	Resistor	N60142*104JL
R13	Resistor	N60142*105JL
R14	Resistor	N60142*152JL
R15	Resistor	N60142*102JL
R16	Resistor	N60142*561JL
R17	Resistor	N60142*271JL
R18	Resistor	N60142*561JL
R19	Resistor	N60142*331JL
R20	Resistor	N60142*221JL
R21	Resistor	N60142*102JL
R22	Resistor	N60142*562JL
R24	Resistor	N60142*472JL
R25	Resistor	N60142*223JL
R26,27,28	Resistor	N60142*222JL
R29,30	Resistor	N60142*182JL
R31,32	Resistor	N60142*472JL
R33,34	Resistor	N60142*103JL
R35	Resistor	N60142*101JL
R36	Resistor	N60142*103JL
R37	Resistor	N60142*563JL
R38	Resistor	N60142*103JL
R39	Resistor	N60142*222JL
R40,41	Resistor	N60142*103JL
R42	Resistor	N60142*473JL
R43	Resistor	N60142*103JL
R44	Resistor	N60142*102JL
R45	Resistor	N60142*471JL
R46	Resistor	N60142*103JL
R47	Resistor	N60142*332JL
R49	Resistor	N60142*472JL
R50	Resistor	N60142*103JL
R51	Resistor	N60142*471JL
R52	Resistor	N60142*392JL
R53	Resistor	N60142*330JL
R54	Resistor	N60142*223JL
R55-62	Resistor	N60142*103JL
R63	Resistor	N60142*181JL
R64	Resistor	N60142*101JL
R65	Resistor	N60142*124JL
R72	Resistor	N60142*470J
R73	Resistor(COMPO-445(Z)	N6012F*150J
R73	Resistor(COMPO-425(Z)/ (COMPO-435(Z)	N6012F*470J
R74	Resistor	N60142*331JL
C1	Ceramic Con.	N65500*680KL
C2	Ceramic Con.	N65503*102ZL
C3	Ceramic Con.	N65505*050DL

C4	Ceramic Con.	N65503*102ZL
C5	Ceramic Con.	N65503*223ZL
C6	Ceramic Con.	N65503*222ZL
C7	Ceramic Con.	N65505*150DL
C8	Ceramic Con.	N65505*270DL
C9	Ceramic Con.	N65505*050DL
C10	Ceramic Con.	N65503*223ZL
C11,12	Ceramic Con.	N65503*223ZL
C14	Poly Con.	N63501*391J
C16	Ceramic Con.	N65503*473ZL
C17	Ceramic Con.	N65505*100DL
C18	Ceramic Con.	N65503*223ZL
C19	Ceramic Con.	N65503*103ZL
C20	Ceramic Con.	N65503*223ZL
C21	Ceramic Con.	N65503*223ZL
C22	Ceramic Con.	N65503*473ZL
C23,24	Electrolytic Con.	N67350*0100L
C25	Semi Cdtr. C.C.	N75253*683ML
C26	Semi Cdtr. C.C.	N75253*823ML
C27	Ceramic Con.	N65503*473ZL
C28	Ceramic Con.	N65503*103ZL
C29	Ceramic Con.	N65503*103ZL
C30,31	Special EC	N76500*0478L
C33	Special EC	N76500*0478L
C34	Ceramic Con.	N65503*563ZL
C35,36	Ceramic Con.	N65503*223ZL
C37,38	Electrolytic Con.	N67160*0101L
C39,40	Ceramic Con.	N65500*391KL
C41	Electrolytic Con.	N67160*0470L
C42	Ceramic Con.	N65503*223ZL
C43	Special EC	N76500*0338L
C44	Mylar Con.	N64500*102KL
C45-47	Ceramic Con.	N65503*103ZL
C48	Ceramic Con.	N65503*102ZL
C49	Semi Cdtr. C.C.	N75253*104ML
C50	Electrolytic Con.	N67160*0470L
C51	Semi Cdtr. C.C.	N75253*104ML
C52	Electrolytic Con.	N67160*0470L
C53,54	Ceramic Con.	N65505*330JL
C55	Electrolytic Con.	N67160*0102
C56	Ceramic Con.	N65500*121KL
C57	Ceramic Con.	N65503*223ZL
C58	Ceramic Con.	N65500*121K
C59	Ceramic Con.	N65503*223ZL
C60	Ceramic Con.	N65500*121KL
C61	Ceramic Con.	N65500*331KL
C66,67	Ceramic Con.	N65503*223ZL
C68	Electrolytic Con.	N67350*0100L
C69,70	Ceramic Con.	N65503*223ZL
C71	Electrolytic Con.	N67350*0100L
C72	Ceramic Con.	N65500*101K
C73	Ceramic Con.	N65505*150DL
C74	Ceramic Con.	N65500*391KL
C75	Ceramic Con.	N65505*270DL
C76	Ceramic Con.	N65505*470DL
C77	Ceramic Con.	N65500*121KL
C78	Ceramic Con.	N65503*223ZL

IC1	IC	N56TC**930402P
IC2	IC	N56TA**7358AP
IC3	IC	N56TA**8132N
IC4	IC	N56TA**78L006P
Q1	Transistor	N572SC*1923***L
Q2	Transistor	N572SC*1359B**L
Q3	Transistor	N572SC*161Y***L
Q4	Transistor	N572SA*719R***L
Q5-8,10-14	Transistor	N572SC*828R***L
Q9	Transistor	N572SA*719R***L
D1,2	Diode	N551SV*101
D3	Diode	N551N**4148***L
D4,5	Diode	N551SV*149
D6-21	Diode	N551N**4148***L
D22	Zener Diode	N55VZ**091****L
D27	Diode	N551N**4148***L
D31	Diode	N551N**4148***L
T1	FM IFT	N80THF*041
T2	MW IFT	N80MF**027
T3	AM ANT Coil	N80MF**060
T4	AM OSC Coil	N80OSC*0610
L1	FM RF Coil	N73THH*003
L2	FM OSC Coil	N73FAL*015
TC1	Trimer Con.	N66TCT*023
TC2	Trimer Con.	N66TCT*024
CF1	Band Pass Filter	N93CF**603A
CF2,3	FM CF	N93CF**102A
CF4	AM CF	N93CF**431
CF5	FM CF	N93CF**129C
CF6	Filter	N93CF**701
CF&	MPX CF	N93CF**410
CF8,9	Notch Filter	N93CF**302
CF10	Crystal	N93CF**7200
PCB	Tuner PCB	N14PCB*1711
PCB	Lamp PCB	N14PCB*1747

AUDIO/G.E.Q AND OTHERS SECTION

NO.	DESCRIPTION	PARTS NO.
R201,401	Resistor	N60142*472JL
R202,402	Resistor	N60142*273JL
R203,403	Resistor	N60142*682JL
R204,404	Resistor	N60142*330JL
R205,405	Resistor	N60142*222JL
R206,406	Resistor	N60142*123JL
R207,407	Resistor	N60142*222JL
R208,408	Resistor	N60142*273JL
R209,409	Resistor	N60142*820JL
R210,410	Resistor	N60142*124JL
R211,411	Resistor	N60142*273JL
R212,412	Resistor	N60142*223JL
R213,413	Resistor	N60142*333JL
R214,414	Resistor	N60142*102JL
R216,416	Resistor	N60142*332JL
R217,417	Resistor	N60142*154JL
R218,418	Resistor	N60142*393JL
R219,419	Resistor	N60142*821JL
R220,420	Resistor	N60142*180JL
R222,422	Resistor	N60142*473JL
R223,423	Resistor	N60142*224JL
R251,451	Resistor	N60142*104JL
R252,452	Resistor	N60142*684JL
R253,453	Resistor	N60142*181JL
R254,454	Resistor	N60142*472JL
R255,455	Resistor	N60142*472JL
R256,456	Resistor	N60142*102JL
R257,457	Resistor	N60142*471JL
R258,458	Resistor	N60142*471JL
R259,459	Resistor	N60142*152JL
R260,460	Resistor	N60142*104JL
R261,461	Resistor	N60142*332JL
R262,462	Resistor	N60142*683JL
R263,463	Resistor	N60142*122JL
R264,464	Resistor	N60142*105JL
R266,466	Resistor	N60142*562JL
R267,467	Resistor	N60142*392JL
R268,468	Resistor	N60142*184JL
R269,469	Resistor	N60142*102JL
R271,471	Resistor	N60142*333JL
R272,472	Resistor	N60142*104JL
R273,473	Resistor	N60142*222JL
R274,474	Resistor	N60142*473JL
R301	Resistor	N60142*183JL
R302	Resistor	N60142*470JL
R303	Resistor	N60142*103JL
R304	Resistor	N60142*101JL
R305	Resistor	N60142*471JL
R306	Resistor	N60142*102JL
R308	Resistor	N60142*222JL
R309	Resistor	N60142*103JL
R310	Resistor	N60142*473JL
R311,312	Resistor	N60142*103JL
R313	Resistor	N60142*104JL

R314	Resistor	N60142*103JL
R315	Resistor	N60142*562JL
R316,317	Resistor	N60142*222JL
R318,319	Resistor	N60142*103JL
R320	Resistor	N60142*222JL
R321	Resistor	N60142*225JL
R322	Resistor	N60142*123JL
R323	Resistor	N60142*122JL
R324	Resistor	N60142*121JL
R325	Resistor	N60142*121JL
R326	Resistor	N60142*121JL
R327,328,329	Resistor	N60142*103JL
R330	Resistor	N60142*102JL
R332	Resistor	N60142*102JL
R341,344	Resistor	N60142*105JL
R351	Resistor	N60142*181JL
R352	Resistor	N60142*221JL
R353	Resistor	N60142*100JL
R354	Resistor	N60142*103JL
R355	Resistor	N60142*333JL
R356	Resistor	N60142*473JL
R357	Resistor	N60142*223JL
R358	Resistor	N60142*473JL
R360-364	Resistor	N60142*102JL
R365	Resistor	N60142*221JL
R366	Resistor	N60142*333JL
R367	Resistor	N60142*104JL
R368,369	Resistor	N60142*473JL
R370	Resistor	N60142*471JL
R371	Resistor	N60142*101JL
R372,373,731	Resistor	N60142*103JL
R374	Resistor	N60142*222JL
R376	Resistor	N60142*393JL
R377	Resistor	N60142*223JL
R379	Resistor	N60142*333JL
R380-383,732	Resistor	N60142*473JL
R384	Resistor	N60142*333JL
R385,386	Resistor	N60142*473JL
R387	Resistor	N60142*333JL
R388,389	Resistor	N60142*473JL
R390	Resistor	N60142*333JL
R391	Resistor	N60142*471JL
R392	Resistor	N60142*470JL
R393	Resistor	N60142*472JL
R394	Resistor	N60142*103JL
R395,397	Resistor	N60142*103JL
R398	Resistor	N60142*122JL
R601,801	Resistor	N60142*223JL
R602,802	Resistor	N60142*684JL
R603,803	Resistor	N60142*180JL
R605,805	Resistor	N60142*228JL
R631,831	Resistor	N60142*221JL
R702	Resistor	N60142*478JL
R703	Resistor	N60142*471JL
R704,705	Resistor	N60142*222JL
R706	Resistor	N60142*102JL
R707	Resistor	N60142*104JL
R708	Resistor	N60142*224JL
R632,832	Resistor	N60142*102J
R733	Resistor	N6012F*680J
R734	Resistor	N6012F*121J

R709	Resistor	N60142*102JL
R710	Resistor	N60142*122JL
R711	Resistor	N60142*471JL
R712	Resistor	N60142*473JL
R713	Resistor	N60142*104JL
R714	Resistor	N60142*222JL
R715	Resistor	N60142*151JL
R901,902	Resistor	N60142*222JL
R903,904	Resistor	N60142*332JL
R905,906	Resistor	N60142*680JL
R907,908	Resistor	N60142*184JL
R909,910	Resistor	N60142*153JL
R911,912	Resistor	N60142*332JL
R913,914	Resistor	N60142*152JL
R915,916	Resistor	N60142*122JL
R917,918	Resistor	N60142*333JL
R919,920	Resistor	N60142*563JL
R921	Resistor	N60142*221JL
C201,401	Semi Cdtr. C.C.	N75253*102ML
C202,402	Semi Cdtr. C.C.	N75253*102ML
C203,403	Ceramic Con.	N65500*221KL
C204,404	Semi Cdtr. C.C.	N75253*102ML
C205,405	Ceramic Con.	N65500*681KL
C206,406	Semi Cdtr. C.C.	N75253*102ML
C207,407	Electrolytic Con.	N67160*0470L
C208,408	Special EC	N76500*0478L
C209,409	Semi Cdtr. C.C.	N75253*223ML
C210,410	Semi Cdtr. C.C.	N75253*223ML
C211,411	Semi Cdtr. C.C.	N75253*223ML
C212,412	Special EC	N76500*0478L
C213,413	Ceramic Con.	N65500*471KL
C214,414	Electrolytic Con.	N67160*0470L
C215,415	Special EC	N76500*0478L
C216,416	Semi Cdtr. C.C.	N75253*223ML
C217,417	Special EC	N76500*0478L
C218,418	Special EC	N76500*0478L
C219,419	Electrolytic Con.	N67160*0470L
C221,421	Semi Cdtr. C.C.	N75253*472ML
C251,451	Special EC	N76500*0478L
C252,452	Special EC	N76500*0478L
C254,454	Special EC	N76500*0478L
C255,455	Special EC	N76500*0478L
C256,456	Semi Cdtr. C.C.	N75253*104ML
C257,457	Special EC	N76500*0108L
C258,458	Semi Cdtr. C.C.	N75253*123ML
C259,459	Special EC	N76500*0479L
C260,460	Semi Cdtr. C.C.	N75253*332ML
C261,461	Semi Cdtr. C.C.	N75253*104ML
C262,462	Semi Cdtr. C.C.	N75253*102ML
C263,463	Semi Cdtr. C.C.	N75253*273ML
C264,464	Semi Cdtr. C.C.	N75253*223ML
C265,465	Special EC	N76500*0108L
C266,466	Special EC	N76500*0108L
C267,467	Special EC	N76500*0108L
C268,468	Ceramic Con.	N65500*100JL
C269,469	Semi Cdtr. C.C.	N75253*223ML
C271,471	Special EC	N76500*0478L

C301	Mylar Con.	N64502*123KL
C302	Mylar Con.	N64500*152KL
C303	Ceramic Con.	N65503*223ZL
C304	Mylar Con.	N64503*682KL
C305	Mylar Con.	N64502*183KL
C306	Electrolytic Con.	N67160*0101L
C307	Electrolytic Con.	N67350*0100L
C308,309	Electrolytic Con.	N67160*0221L
C310	Electrolytic Con.	N67160*0101L
C311	Electrolytic Con.	N67160*0101L
C312	Electrolytic Con.	N67350*0100L
C313	Semi Cdtr. C.C.	N75253*331ML
C314	Electrolytic Con.	N67160*0330L
C315,731	Electrolytic Con.	N67160*0220L
C316-319	Ceramic Con.	N65503*223ZL
C320	Electrolytic Con.	N67160*0101L
C351,352	Electrolytic Con.	N67160*0101L
C353	Electrolytic Con.	N67160*0102
C354	Ceramic Con.	N65503*103ZL
C356	Electrolytic Con.	N67160*0101L
C357	Special EC	N76500*0478L
C358	Electrolytic Con.	N67160*0221L
C359	Electrolytic Con.	N67160*0470L
C360	Ceramic Con.	N65500*471KL
C361,362	Special EC	N76500*0478L
C363	Semi Cdtr. C.C.	N75253*102ML
C364	Electrolytic Con.	N67160*0101L
C395	Ceramic Con.	N65500*101KL
C601,801	Special EC	N76500*0478L
C602,802	Special EC	N76500*0478L
C603,803	Electrolytic Con.	N67160*0470L
C604,804	Semi Cdtr. C.C.	N75253*104ML
C605,805	Electrolytic Con.	N67250*0221L
C606,806	Ceramic Con.	N65500*470JL
C701-704	Ceramic Con.	N65503*223ZL
C705	Electrolytic Con.	N67500*0472L
C706	Electrolytic Con.	N67160*0221L
C707	Electrolytic Con.	N67350*0100L
C708,709	Electrolytic Con.	N67160*0471L
C710,711	Electrolytic Con.	N67160*0470L
C712	Special EC	N76500*0108L
C713	Special EC	N76500*0478L
C715	Electrolytic Con.	N67350*0100L
C717-720	Ceramic Con.	N65503*223ZL
C751,752	Electrolytic Con.	N67160*0222
C901,902	Special EC	N76500*0478L
C903,904	Ceramic Con.	N65500*220JL
C905,906	Electrolytic Con.	N67160*0330L
C907,908	Semi Cdtr. C.C.	N75253*183ML
C909,910	Semi Cdtr. C.C.	N75253*562ML
C911,912	Special EC	N76500*0478L
C913,914	Electrolytic Con.	N67160*0101L
IC301	IC	N56UPC*1330HA
IC302	IC	N56AN**7345K
IC303	IC	N56TC**9152
IC304	IC	N56BA**3822LS
IC305	IC	N56TC**9150
IC306	IC	N56TC**9153
IC307	IC	N56HC**341M

IC701	IC	N56TA**8216H
Q201,401	Transistor	N572SC*2878***L
Q202,402	Transistor	N572SC*828R***L
Q203,403	Transistor	N572SC*828R***L
Q204,404	Transistor	N572SC*828R***L
Q205,405	Transistor	N572SC*2878***L
Q301	Transistor	N572SC*828R***L
Q302,303	Transistor	N572SC*1317R**L
Q304	Transistor	N572SA*719R***L
Q305	Transistor	N572SC*1317R**L
Q306,307	Transistor	N572SA*719R***L
Q308	Transistor	N572SA*733****L
Q309	Transistor	N572SC*828R***L
Q310	Transistor	N572SA*719R***L
Q311,312	Transistor	N572SC*828R***L
Q313	Transistor	N572SA*719R***L
Q314	Transistor	N572SC*1317R**L
Q315	Transistor	N572SA*719R***L
Q316,317	Transistor	N572SC*828R***L
Q318	Transistor	N572SA*719R***L
Q319	Transistor	N572SC*828R***L
Q320	Transistor	N572SA*719R***L
Q321	Transistor	N572SC*828R***L
Q322	Transistor	N572SA*719R***L
Q323-329	Transistor	N572SC*828R***L
Q601,801	Transistor	N572SC*828R***L
Q701	Transistor	N572SD*882
Q702	Transistor	N572SA*719R***L
Q703,704,706	Transistor	N572SC*1317R**L
Q705	Transistor	N572SC*828R***L
D301,302	Diode	N551N**4002
D303,304	Diode	N551N**4148***L
D305	LED	N82LED*079
D306-314	Diode	N551N**4148***L
D315-319	LED	N82LED*079
D320-321	Diode	N551N**4148***L
D323	LED	N82LED*079
D324	Diode	N551N**4148***L
D701-704	Diode	N55J1
D706	Diode	N661N**4002
D707	Zener Diode	N55VZ**130****L
D708	Zener Diode	N55VZ**091****L
D709	Diode	N551N**4148***L
D710	LED	N82LED*079
D711,712,731	Diode	N551N**4148***L
D713-716	Diode	N551N**4002
T201,401	Trap Coil	N80OSL*090
T301	Bias OSC Coil	N80TLF*006
S1	Power SW	N77PUS*116
S2	Slide SW	N77SLS*2215
S3	Push SW	N77PUS*145
S8	Slide SW	N77SLS*2215
SW	Slide SW(115/230V)	N77SLS*2215

S301-322	Tact sw	N77PUS*014
VR201-205	Slide VR	N61SVR*334
VR401-405	Slide VR	N61SVR*334
VR301	Rotary VR	N61RVR*743
SR301	Semi VR	N61TVRH850202
J201,401	SPK Jack	N87JAK*102
J202,402	AUX Jack	N87JAK*0511
J203,404	AUX Jack	N87JAK*0511
J301	Headphone Jack	N87JAK*068
F701	Fuse	N8420T*3150
F702	Fuse	N8420T*1000
⚠PT	Power Trans	N80PT**3232A1 (COMPO-445)
⚠PT	Power Trans	N80PT**6230A1 (COMPO-445Z)
⚠COD	AC Cord	N89COD*270 (COMPO-445)
⚠COD	AC Cord	N89COD*180A (COMPO-445Z)
PCB	Function EQ PCB	N14PCB*1921
PCB	REC LED PCB	N14PCB*1918
PCB	Headphone PCB	N14PCB*1960
PCB	SPK Jack PCB	N14PCB*1775D
PCB	Hand Set PCB	N14PCB*1522A
PCB	Battery PCB	N14PCB*1556
PCB	Battery PCB	N14PCB*1557
PCB	AMP PCB	N14PCB*1917
PCB	CD Power PCB	N14PCB*1926
PCB	M.M. PCB	N14PCB*1929

HAND SET PCB SECTION

R1	Resistor	N60144*272J
R2	Resistor	N60144*108J
C3,4	Ceramic Con.	N65500*101J
IC1	IC	N56TC**9148P
Q1	Transistor	N572SC*1317R**L
Q2	Transistor	N572SA*733****L
D1,2,4	Diode	N551N**4148***L
D3	Infraed LED	N58TLN*105A
CF1	Ceramic Filter	N93CF**403
PCB	Hand Set PCB	N14PCB*1522A

AUDIO/G.E.Q AND OTHERS SECTION

NO.	DESCRIPTION	PARTS NO.
R201,401	Resistor	N60142*332JL
R202,402	Resistor	N60142*273JL
R203,403	Resistor	N60142*682JL
R204,404	Resistor	N60142*330JL
R205,405	Resistor	N60142*222JL
R206,406	Resistor	N60142*123JL
R207,407	Resistor	N60142*222JL
R208,408	Resistor	N60142*273JL
R209,409	Resistor	N60142*820JL
R210,410	Resistor	N60142*124JL
R211,411	Resistor	N60142*273JL
R212,412	Resistor	N60142*223JL
R213,413	Resistor	N60142*333JL
R214,414	Resistor	N60142*102JL
R216,416	Resistor	N60142*472JL
R217,417	Resistor	N60142*154JL
R218,418	Resistor	N60142*393JL
R219,419	Resistor	N60142*821JL
R220,420	Resistor	N60142*182JL
R222,422	Resistor	N60142*473JL
R223,423	Resistor	N60142*224JL
R251,451	Resistor	N60142*104JL
R252,452	Resistor	N60142*684JL
R253,453	Resistor	N60142*181JL
R254,454	Resistor	N60142*472JL
R255,455	Resistor	N60142*472JL
R256,456	Resistor	N60142*102JL
R257,457	Resistor	N60142*471JL
R258,458	Resistor	N60142*471JL
R259,459	Resistor	N60142*152JL
R260,460	Resistor	N60142*104JL
R261,461	Resistor	N60142*222JL
R262,462	Resistor	N60142*683JL
R263,463	Resistor	N60142*122JL
R264,464	Resistor(COMPO-435(Z))	N60142*105JL
R266,466	Resistor	N60142*562JL
R267,467	Resistor	N60142*222JL
R268,468	Resistor	N60142*184JL
R269,469	Resistor	N60142*102JL
R270,470	Resistor(COMPO-435(Z))	N60142*123JL
R271,471	Resistor	N60142*333JL
R272,472	Resistor	N60142*104JL
R273,473	Resistor	N60142*222JL
R274,474	Resistor	N60142*473JL
R301	Resistor	N60142*183JL
R302	Resistor	N60142*470JL
R303	Resistor	N60142*103JL
R304	Resistor	N60142*101JL
R305	Resistor	N60142*471JL
R306	Resistor	N60142*102JL
R308	Resistor	N60142*222JL
R309	Resistor	N60142*103JL
R310	Resistor	N60142*473JL

R311,312	Resistor	N60142*103JL
R313	Resistor	N60142*104JL
R314	Resistor	N60142*103JL
R315	Resistor	N60142*562JL
R316,317	Resistor	N60142*222JL
R318,319	Resistor	N60142*103JL
R320	Resistor	N60142*222JL
R321	Resistor	N60142*225JL
R322	Resistor	N60142*123JL
R323	Resistor	N60142*122JL
R324	Resistor	N60142*101JL
R325	Resistor	N60142*121JL
R326	Resistor	N60142*101JL
R327,328,329	Resistor	N60142*103JL
R330	Resistor	N60142*102JL
R332	Resistor	N60142*102JL
R341-350	Resistor	N60142*105JL
R351	Resistor	N60142*181JL
R352	Resistor	N60142*221JL
R353	Resistor	N60142*100JL
R354	Resistor	N60142*103JL
R355	Resistor	N60142*333JL
R356	Resistor	N60142*473JL
R357	Resistor	N60142*223JL
R358	Resistor	N60142*473JL
R360-364	Resistor	N60142*102JL
R365	Resistor	N60142*221JL
R366	Resistor	N60142*333JL
R367	Resistor	N60142*104JL
R368,369	Resistor	N60142*473JL
R370	Resistor	N60142*471JL
R371	Resistor	N60142*101JL
R372,373,731	Resistor	N60142*103JL
R374	Resistor	N60142*222JL
R376	Resistor	N60142*393JL
R377	Resistor	N60142*223JL
R378	Resistor	N60142*473JL
R379	Resistor	N60142*333JL
R380-383,732	Resistor	N60142*473JL
R384	Resistor	N60142*333JL
R385,386	Resistor	N60142*473JL
R387	Resistor	N60142*333JL
R388,389	Resistor	N60142*473JL
R390	Resistor	N60142*333JL
R391	Resistor	N60142*471JL
R392	Resistor	N60142*470JL
R394	Resistor	N60142*103JL
R395-397	Resistor	N60187*101JL
R398	Resistor	N60144*122JL
R601,801	Resistor	N60142*223JL
R602,802	Resistor	N60142*684JL
R603,803	Resistor	N60142*152JL
R604,804	Resistor	N60142*391JL
R605,805	Resistor	N60142*228JL
R631,831	Resistor	N60142*221JL
R701	Resistor	N6040F*408JT
R702	Resistor	N60142*478JL
R703	Resistor	N60142*471JL
R632,832	Resistor	N60142*102J
R733	Resistor	N6012F*680J
R734	Resistor	N6012F*121J

R704	Resistor	N60142*222JL
R705	Resistor	N60142*222JL
R706	Resistor	N60142*102JL
R707	Resistor	N60142*104JL
R708	Resistor	N60142*224JL
R709	Resistor	N60142*102JL
R710	Resistor	N60142*122JL
R711	Resistor	N60142*471JL
R712	Resistor	N60142*473JL
R713	Resistor	N60142*104JL
R714	Resistor	N60142*222JL
R715	Resistor	N6012F*331J
R761	Resistor	N60142*561JL
R762	Resistor	N60142*222JL
R763	Resistor	N60142*154JL
R764	Resistor	N60142*153JL
R765	Resistor	N60142*331JL
R766	Resistor	N60142*273JL
C201,401	Semi Cdtr. C.C.	N75253*102ML
C202,402	Semi Cdtr. C.C.	N75253*102ML
C203,403	Ceramic Con.	N65500*221KL
C204,404	Semi Cdtr. C.C.	N65253*102ML
C205,405	Ceramic Con.	N65500*681KL
C206,406	Semi Cdtr. C.C.	N75253*102ML
C207,407	Electrolytic Con.	N67160*0470L
C208,408	Special EC	N76500*0478L
C209,409	Semi Cdtr. C.C.	N75253*223ML
C210,410	Semi Cdtr. C.C.	N75253*223ML
C211,411	Semi Cdtr. C.C.	N75253*223ML
C212,412	Special EC	N76500*0478L
C213,413	Ceramic Con.	N65500*471KL
C214,414	Electrolytic Con.	N67160*0470L
C215,415	Special EC	N76500*0478L
C216,416	Semi Cdtr. C.C.	N75253*223ML
C218,418	Special EC	N76500*0478L
C219,419	Electrolytic Con.	N67160*0470L
C221,421	Semi Cdtr. C.C.	N75253*472ML
C251,451	Special EC	N76500*0478L
C252,452	Special EC	N76500*0478L
C253,453	Special EC	N76500*0478L
C255,455	Special EC	N76500*0478L
C256,456	Semi Cdtr. C.C.	N75253*104ML
C257,457	Special EC	N76500*0108L
C258,458	Semi Cdtr. C.C.	N75253*123ML
C259,459	Special EC	N76500*0479L
C260,460	Semi Cdtr. C.C.	N75253*332ML
C261,461	Semi Cdtr. C.C.	N75253*104ML
C262,462	Semi Cdtr. C.C.	N75253*102ML
C263,463	Semi Cdtr. C.C.	N75253*273ML
C264,464	Semi Cdtr. C.C.	N75253*223ML
C265,465	Special EC	N76500*0108L
C266,466	Special EC	N76500*0108L
C267,467	Special EC	N76500*0108L
C268,468	Ceramic Con.	N65500*100JL
C269,469	Semi Cdtr. C.C.	N75253*223ML
C271,471	Special EC	N76500*0478L
C301	Mylar Con.	N64502*123KL
C302	Mylar Con.	N64500*152KL
C303	Ceramic COn.	N65503*223ZL

C304	Mylar Con.	N64500*682KL
C305	Mylar Con.	N64502*183KL
C306	Electrolytic Con.	N67160*0101L
C307	Electrolytic Con.	N67350*0100L
C308,309	Electrolytic Con.	N67160*0221L
C310	Electrolytic Con.	N67160*0101L
C311	Electrolytic Con.	N67160*0101L
C312	Electrolytic Con.	N67350*0100L
C313	Semi Cdtr. C.C.	N75253*333ML
C314	Electrolytic Con.	N67160*0330L
C315,731	Electrolytic Con.	N67160*0220L
C316,317,318,319	Ceramic Con.	N65503*223ZL
C320	Electrolytic Con.	N67160*0101L
C351,352	Electrolytic Con.	N67160*0101L
C353	Electrolytic Con.	N67160*0102
C354	Ceramic Con.	N65503*103ZL
C356	Electrolytic Con.	N67160*0101L
C357	Special EC	N76500*0478L
C358	Electrolytic Con.	N67160*0221
C359	Electrolytic Con.	N67160*0470L
C360	Ceramic Con.	N65500*471KL
C361,362	Special EC	N76500*0478L
C363	Semi Cdtr. C.C.	N75253*102ML
C364	Electrolytic Con.	N67160*0101L
C365	Electrolytic Con.	N67350*0100L
C395	Ceramic Con.	N65500*101KL
C601,801	Special EC	N76500*0478L
C602,802	Special EC	N76500*0478L
C603,803	Electrolytic Con.	N67160*0470L
C604,804	Semi Cdtr. C.C.	N75253*104ML
C605,805	Electrolytic Con.	N67250*0222L
C606,806	Ceramic Con.	N65500*470JL
C701-704	Ceramic Con.	N65503*223ZL
C705	Electrolytic Con.	N67500*0472L
C706	Electrolytic Con.	N67160*0221L
C707	Electrolytic Con.	N67350*0100L
C708,709	Electrolytic Con.	N67160*0471L
C710,711	Electrolytic Con.	N67160*0470L
C712	Special EC	N76500*0108L
C713	Electrolytic Con.	N67350*0100L
C714	Electrolytic Con.	N67160*0101L
C715	Electrolytic Con.	N67350*0100L
C761,762	Electrolytic Con.	N67160*0101L
C763	Electrolytic Con.	N67160*0100L
C764,765	Electrolytic Con.	N67160*0101L

IC301	IC	N56UPC*1330HA
IC302	IC	N56AN**7345K
IC303	IC	N56TC**9152
IC304	IC	N56BA**3822LS
IC305	IC	N56TC**9150
IC306	IC	N56TC**9153
IC307	IC	N56HC**341M
IC701	IC	N56TA**8216H

Q201,401	Transistor	N572SC*2878***L
Q202,402	Transistor	N572SC*828R***L
Q203,403	Transistor	N572SC*828R***L
Q204,404	Transistor	N572SC*828R***L
Q205,405	Transistor	N572SC*2878***L
Q301	Transistor	N572SC*828R***L
Q302,303	Transistor	N572SC*1317R**L

Q304	Transistor	N572SA*719R***L
Q305	Transistor	N572SC*1317R**L
Q306,307	Transistor	N572SC*719R***L
Q308	TRansistor	N572SA*733****L
Q309	Transistor	N572SC*828R***L
Q310	Transistor	N572SA*719R***L
Q311,312	Transistor	N572SC*828R***L
Q313	Transistor	N572SA*719R***L
Q314	Transistor	N572SC*1317R**L
Q315	Transistor	N572SA*719R***L
Q316,317	Transistor	N572SC*828R***L
Q318	Transistor	N572SA*719R***L
Q319	Transistor	N572SC*828R***L
Q320	Transistor	N572SA*719R***L
Q321	Transistor	N572SC*828R***L
Q322	Transistor	N572SA*719R***L
Q323-327	Transistor	N572SC*828R***L
Q328	Transistor(COMPO-435(Z))	N572SC*828R***L
Q329	Transistor	N572SC*828R***L
Q601,801	Transistor	N572SC*828R***L
Q701	Transistor	N572SD*882
Q702	Transistor	N572SA*719R***L
Q703,704,706	Transistor	N572SC*1317R**L
Q705	Transistor	N572SD*882
Q761	Transistor	N572SD*313
Q762	Transistor	N572SA*544E
Q763,764	Transistor	N572SC*828R

D301,302	Diode	N551N**4002
D303,304	Diode	N551N**4148***L
D305	LED	N82LED*079
D306-314	Diode	N551N**4148***L
D315-319	LED	N82LED*079
D320,321	Diode	N551N**4148***L
D323	LED	N82LED*079
D324	Diode	N551N**4148***L
D701-705	Diode	N551N**4002
D707	Zener Diode	N55VZ**130****L
D708	Zener Diode	N55VZ**091****L
D709	Diode	N551N**4148***L
D710	LED	N82LED*079
D711,712	Diode	N551N**4148***L
D713	Diode	N551N**4002
D761,762,731	Diode	N551N**4148***L

T201,401	Trap coil	N80OSL*090
T301	Bias OSC coil	N80TLF*006

S1	Power sw	N77PUS*116
S2	Slide sw	N77SLS*2215
S3	Push sw	N77PUS*145
S8	Slide sw	N77SLS*2215
SW	Slide sw(115V/230V)	N77SLS*129(COMPO-435(Z))
S301-322	Tact sw	N77PUS*014
S701-710	Tact sw	N77PUS*014

VR201-205	Slide VR	N61SVR*334
VR401-405	Slide VR	N61SVR*334
VR301	Rotary VR	N61RVR*743
SR301	Semi VR	N61TVRH850202

J201,401	SPK Jack	N87JAK*102
J202,402	AUX Jack[COMPO-425(Z)]	N87JAK*0511
J202,402	AUX Jack[COMPO-435(Z)]	N87JAK*1612
J301	Headphone Jack	N87JAK*068
⚠F701	Fuse	N8420T*3150
⚠PT	Power Trans (COMPO-425/435)	N80PT**3220*1
⚠PT	Power Trans (COMPO-425Z/435Z)	N80PT**6220*1
⚠COD	AC Cord (COMPO-425/435)	N89COD*270
⚠COD	AC Cord (COMPO-425Z/435Z)	N89COD*180A
PCB	Function EQ PCB	N14PCB*1921
PCB	REC LED PCB	N14PCB*1918
PCB	SPEED PCB	N14PCB*1919
PCB	CD Display PCB	N14PCB*1915
PCB	CD Lamp PCB	N14PCB*1916
PCB	Headphone PCB	N14PCB*1960
PCB	SPK Jack PCB	N14PCB*1775D
PCB	Hand SET PCB	N14PCB*1522A
PCB	AMP PCB	N14PCB*1917
PCB	Battery PCB	N14PCB*1556
PCB	Battery	N14PCB*1557

HAND SET PCB SECTION

R1	Resistor	N60144*272J
R2	Resistor	N60144*108J
C3,4	Ceramic Con.	N65500*101J
IC1	IC	N56TC**9148P
Q1	Transistor	N572SC*1317R**L
Q2	Transistor	N572SA*733****L
D1,2,4	Diode	N551N**4148***L
D3	Infraed LED	N58TLN*105A
CF1	Ceramic Filter	N93CF**403
PCB	Hand Set PCB	N14PCB*1522A

COMPO-425(Z) ELECTRICAL PARTS LIST(M.M. PCB)

NO	DESCRIPTION	PARTS NO
R901,902	Resistor	N60142*222JL
R903,904	Resistor	N60142*332JL
R905,906	Resistor	N60142*680JL
R907,908	Resistor	N60142*184JL
R909,910	Resistor	N60142*153JL
R911,912	Resistor	N60142*332JL
R913,914	Resistor	N60142*152JL
R915,916	Resistor	N60142*122JL
R917,918	Resistor	N60142*333JL
R919,920	Resistor	N60142*563JL
R921	Resistor	N60142*221JL
C901,902	Special EC	N76500*0478L
C903,904	Ceramic Con.	N65500*220JL
C905;906	Electrolytic Con.	N67160*0330L
C907,908	Semi Cdtr. C.C.	N75253*183ML
C909,910	Semi Cdtr. C.C.	N75253*562ML
C911,912	Special EC	N76500*0478L
C913,914	Electrolytic Con.	N67160*0101L
IC901	IC	N56NJM*4558D
PCB	M.M. PCB	N14PCB*1929

COMPO-425(Z)/435(Z)

MODEL: CDKM87CP

CD PORTION PARTS LIST

NO	DESCRIPTION	PARTS LIST
R201	Resistor	N60142*104JL
R202	Resistor	N60142*153JL
R203	Resistor	N60142*562JL
R204	Resistor	N60142*104JL
R206	Resistor	N60142*562JL
R207	Resistor	N60142*333JL
R208	Resistor	N60142*223JL
R209	Resistor	N60142*104JL
R210	Resistor	N60142*223JL
R211	Resistor	N60142*122JL
R212	Resistor	N60142*473JL
R213	Resistor	N60142*274JL
R214	Resistor	N60142*100JL
R215	Resistor	N60142*228JL
R216	Resistor	N60142*154JL
R218	Resistor	N60142*104JL
R219	Resistor	N60142*222JL
R220	Resistor	N60142*271JL
R221	Resistor	N60142*123JL
R222	Resistor	N60142*393JL
R223	Resistor	N60142*393JL
R224	Resistor	N60142*153JL
R225	Resistor	N60142*273JL
R226	Resistor	N60142*224JL
R227	Resistor	N60142*273JL
R228	Resistor	N60142*334JL
R229	Resistor	N60142*100JL
R230	Resistor	N60142*224JL
R231	Resistor	N60142*561JL
R232	Resistor	N60142*222JL
R233	Resistor	N60142*271JL
R234	Resistor	N60142*472JL
R235	Resistor	N60142*103JL
R236	Resistor	N60142*104JL
R237	Resistor	N60142*104JL
R238	Resistor	N60142*223JL
R239	Resistor	N60142*223JL
R240	Resistor	N60142*332JL
R241	Resistor	N60142*472JL
R242	Resistor	N60142*221JL
R243	Resistor	N60142*223JL
R244	Resistor	N60142*102JL
R245	Resistor	N60142*153JL
R246	Resistor	N60142*222JL
R247,248	Resistor	N60142*104JL
R249,250	Resistor	N60142*564JL
R251	Resistor	N60142*563JL
R252	Resistor	N60142*473JL
R253	Resistor	N60142*681JL
R254	Resistor	N60142*103JL
R255	Resistor	N60142*228JL
R256	Resistor	N60142*100JL
R257	Resistor	N60142*228JL
R258	Resistor	N60142*124JL
R259	Resistor	N60142*103JL
R260	Resistor	N60142*228JL
R261	Resistor	N60142*103JL
R262	Resistor	N60142*222JL

R263	Resistor	N60142*682JL
R264	Resistor	N60142*223JL
R265	Resistor	N60142*103JL
R266	Resistor	N60142*104JL
R267	Resistor	N60142*913JL
R268,269	Resistor	N60142*333JL
R270	Resistor	N60142*272JL
R271	Resistor	N60142*682JL
R272	Resistor	N60142*822J
R273	Resistor	N60142*393JL
R274,275	Resistor	N60142*221J
R276	Resistor	N60142*101JL
R277,278	Resistor	N60142*103JL
R279	Resistor	N60142*122JL
R280	Resistor	N60142*122JL
R281,282	Resistor	N60142*224JL
R283,284	Resistor	N60142*391JL
R285,286	Resistor	N60142*332JL
R287,288	Resistor	N60142*102JL
R289-292	Resistor	N60142*473JL
R293,294	Resistor	N60142*183JL
R295,296	Resistor	N60142*104JL
R297,298	Resistor	N60142*222JL
R299,300	Resistor	N60142*682JL
R301,302	Resistor	N60142*103JL
R303	Resistor	N60142*153JL
R304	Resistor	N60142*100JL
R305	Resistor	N60122*100J
R306	Resistor	N60142*100JL
R307,308	Resistor	N60122*100J
R309	Resistor	N60142*220J
R310	Resistor	N60142*101JL
R311	Resistor	N60142*220J
R312	Resistor	N60142*104JL
R313	Resistor	N60142*473JL
R314	Resistor	N60142*221JL
R315	Resistor	N60142*223JL
R316	Resistor	N60142*103JL
R317	Resistor	N60142*102JL
R318	Resistor	N60142*473JL
R319	Resistor	N60142*332JL
R320	Resistor	N60142*103JL
R321	Resistor	N60142*272JL
R322-324	Resistor	N60142*472JL
R325	Resistor	N60142*105JL
R326	Resistor	N60142*223JL
R327	Resistor	N60142*103JL
R328	Resistor	N60142*473JL
R329	Resistor	N60142*222JL
R330	Resistor	N60142*333JL
R331	Resistor	N60142*101JL
R332	Resistor	N60142*183JL
R333	Resistor	N60142*124JL
R334	Resistor	N60142*473JL
R335,336	Resistor	N60142*274JL
R340	Resistor	N60142*103JL
R341	Resistor	N60142*223JL
R343	Resistor	N60142*102JL
R344	Resistor	N60142*471JL
R345	Resistor	N60142*222JL

R346	Resistor	N60142*681JL
R351,352	Resistor	N60142*103JL
R353	Resistor	N60142*105JL
R401-404	Resistor	N60142*103JL
R405	Resistor	N60142*473JL
C201,202	Ceramic con.	N65500*680KL
C203	Ceramic con.	N65500*181KL
C204	Special E.C.	N76500*0479L
C205	Electrolytic con.(NP)	N67502*0479L
C206	Ceramic con.	N65500*471KL
C207	Mylar con.	N64500*683KL
C208	Mylar con.	N64500*104K
C209	Ceramic con.	N65500*471KL
C210	Semi conductor C.C.	N75253*104ML
C211,212	Ceramic con.	N65500*330JL
C214	Mylar con.	N64500*103KL
C215	Mylar con.	N64500*102KL
C216	Mylar con.	N64500*154K
C217	Mylar con.	N64500*224K
C218	MPF con.	N72501*334K
C219	Ceramic con.	N65500*050DL
C220	Semi conductor C.C.	N75253*104ML
C221	Ceramic con.	N65500*221KL
C222,223	Mylar con.	N64500*123KL
C224,225	Mylar con.	N64500*222KL
C226	Electrolytic con.(NP)	N67502*0108L
C227	Semi conductor C.C.	N75253*104ML
C228	Electrolytic con.	N67350*0100L
C229	Electrolytic con.	N67160*0101L
C230	Semi conductor C.C.	N75253*103ML
C231	Electrolytic con.(NP)	N67502*0108L
C232	Ceramic con.	N65500*221KL
C233	Mylar con.	N64500*393KL
C234	Poly con.	N63500*102J
C235	Semi conductor C.C.	N75253*103ML
C236	Semi conductor C.C.	N75253*104ML
C237	Mylar con.	N64500*103KL
C238	Ceramic con.	N65500*681KL
C239	Mylar con.	N64500*333KL
C240	Mylar con.	N64500*104K
C241,242	Ceramic con.	N65500*030DL
C243,244	Mylar con.	N64500*333KL
C245,246	Electrolytic con.	N76500*0478L
C247,248	Ceramic con.	N65500*030DL
C249,250	Electrolytic con.(NP)	N67162*0478L
C251,252	Ceramic con.	N65500*471KL
C253,254	Semi conductor C.C.	N75253*102ML
C255,256	Ceramic con.	N65500*270JL
C259	Special E.C.	N76500*0108L
C260	Special E.C.	N76500*0109L
C261	Semi conductor C.C.	N75253*104ML
C262	Special E.C.	N76500*0478L
C263	Electrolytic con.	N67160*0101L
C264-267	Ceramic con.	N65503*103ZL
C268,269	Electrolytic con.	N67160*0222
C270-272	Electrolytic con.	N67160*0470L
C273	Electrolytic con.	N67350*0100L
C274	Electrolytic con.	N67250*0220L
C275	Semi conductor C.C.	N75253*103ML
C276	Electrolytic con.	N67100*0221L

C277	Electrolytic con.	N67350*0100L
C278	Electrolytic con.	N67160*0470L
C280	Semi conductor C.C.	N75253*104ML
C281	Electrolytic con.	N67100*0221L
C282	Electrolytic con.	N67350*0100L
C283,284	Special E.C.	N76500*0228L
C285,286	Semi conductor C.C.	N75253*104ML
C287	Electrolytic con.	N67160*0470L
C288,289	Electrolytic con.	N67350*0100L
C290	Semi conductor C.C.	N75253*103ML
C294	Electrolytic con.	N67160*0470L
C295	Semi conductor C.C.	N75253*104ML
C310	Semi conductor C.C.	N75253*103ML
C311,312	Semi conductor C.C.	N75253*104ML
C313	Semi conductor C.C.	N75253*103ML
C314-316	Electrolytic con.	N67350*0100L
C319	Semi conductor C.C.	N75253*102ML
C320	Semi conductor C.C.	N75253*104ML
C325	Electrolytic con.(NP)	N67502*0108L
IC201	IC	N56LA**9200NM
IC202	IC	N56LC**7860N
IC203	IC	N56LC**7880
IC204	IC	N56FA**5205P
IC205	IC	N56LC**3517AS1
IC206	IC	N56M***5093012
IC207,208	IC	N56LA**6462S
IC211	IC	N56TA**78L006A
IC212	IC	N56L***78M05
IC213	IC	N56TA**79L006P
Q201	Transistor	N572SC*536GNP
Q202	Transistor	N572SD*1227M
Q203	Transistor	N572SB*911M
Q204	Transistor	N572SC*3400
Q205	Transistor	N572SD*1012GSP
Q206-208	Transistor	N572SC*3400
Q209-212	Transistor	N572SD*1012GSP
Q213	Transistor	N572SC*536GNP
Q214-216	Transistor	N572SA*608FNP
Q221	Transistor	N572SC*3860
Q230	Transistor	N572SC*3400
D201	Varactor diode	N55VC**211SP
D202	Diode	N55GMA*01BT
D203	Diode	N55DS**442BT
D204	Diode	N55GMA*01BT
D205	Diode	N55DS**442BT
D206-213	Diode	N55GMA*01BT
D214	Diode	N55DS**442BT
D216,217	Diode	N55DS**442BT
D225	Diode	N55GMA*01BT
D226-229	Diode	N55ERA*1502
D230	Zener dioe	N55VZ**075
D231-233	Diode	N55GMA*01BT

T201	RF filter coil	N80HF**0012
T202	OSC coil	N80HF**0411
T203,204	AF filter coil	N80HF**0311
P202	Semi VR(B-10K)	N61TVR*055
P203	Semi VR(B-100K)	N61TVR*057
P204,205	Semi VR(B-10K)	N61TVR*052
P206	Semi VR(B-100K)	N61TVR*057
X201	Crystal(8643.6KHz)	N93CF**205
X202	Ceramic OSC(4.32MHz)	N93CF**120
PCB	CD main PCB	N14PCB*1506

COMPO-445(Z)

MODEL: KM-510A

CD PORTION PARTS LIST

MAIN P.C.B. ASSY

(39)	MAIN P.C.B. ASSY	704-KM510A-736	
	MAIN P.C.B.	405-KM500-101	1
	PIN	424-D200-001	2
	HEAT SINK	425-KT350-002	1
	SCREW	602-2002-076	1
Q101	DTC124ES	416-3113-010	1
Q102	2SC1740	416-3113-007	1
Q104	2SD1468	416-3113-009	1
Q107	DTC124ES	416-3113-010	1
Q108	2SA933	416-3113-008	1
Q109	2SC1740	416-3113-007	1
Q110	2SC1740	416-3113-007	1
Q111	2SD1468	416-3113-009	1
Q112	2Sd1468	416-3113-009	1
Q114	2SA933	416-3113-008	1
Q115	2SA933	416-3113-008	1
Q116	DTC124ES	416-3113-010	1
Q117	B1010	416-1360S-017	1
Q118	2SA933	416-3113-008	1
Q119	D1384	416-1360S-016	1
Q120	2SA933	416-3113-008	1
Q121	DCT124TS	416-1330-020	1
Q122	DCT124TS	416-1330-020	1
Q123	DCT124TS	416-1330-020	1
Q124	DCT124TS	416-1330-020	1
Q125	DCT124TS	416-1330-020	1
Q126	DCT124TS	416-1330-020	1
IC101	LA9200NM	417-3113-009	1
IC102	LC7860K	417-KT350-032	1
IC103	LC7881	417-KT350-033	1
IC104	P8050	417-KM500-047	1
IC105	6116 (SRAM 2k x 8)	417-KT350-025	1
IC106	LA6520	417-1210S-037	1
IC107	LA6510	417-3113-013	1
IC108	4558S	417-KT350-034	1
IC109	4558S	417-KT350-034	1
IC110	78M05	417-2002-003	1
IC112	79L06	417-3113-016	1
P101	20KB VR	412-3113-042	1
P102	8.2K J 1/6W CARBON	412-KM500-123	1
P102A	4.7K J 1/6W CARBON	412-3113-055	1
P103	100KB VR	412-3113-043	1
P105	10K J 1/6W CARBON	412-3113-068	1
P105A	2.7K J 1/6W CARBON	412-3113-073	1
X101	CRYSTAL 8.6436MHz	427-3113-001	1
X102	RESONATOR 6MHz	427-3113-002	1
T102	OSC COIL	415-3113-004	1
CN01	5P JST	404-1210S-094	1
CN02	6P JST	404-3113-052	1
CN03	6P JAE	404-1210S-102	1
CN04	10P JAE	404-3113-058	1
CN05	4P JAE	404-KM300-122	1
CN06	6P JST	404-3113-056	1
CN07	3P JST	404-3113-055	1
CN08	4P JST	404-KT300-080	1
CN09	3P	424-KT350-005	1

CN10	5P JAE	404-KM300-123	1
CN11	4P JST	404-KM300-122	1
CN12	2P JST	404-KM300-124	1
CN13	2P JST	404-KM300-124	1
C101	0.01uF 50V K CERAMIC	404-3113-028	1
C102	10uF/25V M ELECT.	413-3113-052	1
C103	47uF/16V M ELECT.	413-3113-043	1
C104	47uF/16V M ELECT.	413-3113-043	1
C105	33PF J CERAMIC	413-3113-029	1
C106	33PF J CERAMIC	413-3113-029	1
C107	0.01uF 50V J MYLAR	413-3113-057	1
C108	0.001uF 50V J MYLAR	413-3113-058	1
C109	0.15uF 50V J MYLAR	413-KT350-087	1
C110	0.22uF/50V BP ELECT.	413-KT350-096	1
C111	0.33uF/50V BP ELECT.	413-KT350-090	1
C112	0.47uF/50V M ELECT.	413-3113-044	1
C113	180PF 50V K CERAMIC	413-3113-030	1
C114	68PF 50V K CERAMIC	413-3113-031	1
C115	68PF 50V K CERAMIC	413-3113-031	1
C116	220PF 50V K CERAMIC	413-3113-032	1
C117	0.039uF 50V J MYLAR	413-3113-062	1
C118	1000PF 50V J PS	413-3113-067	1
C119	0.01uF 50V J MYLAR	413-3113-057	1
C120	0.047uF 50V Z CERAMIC	413-3113-033	1
C121	0.001PF 50V J MYLAR	413-3113-058	1
C122	0.033uF 50V J MYLAR	413-KT350-088	1
C123	0.1uF 50V J MYLAR	413-KT350-089	1
C124	47uF/16V ELECT.	413-KT3530-085	1
C125	0.1uF 50V Z CERAMIC	413-3113-035	1
C126	0.01uF 50V J MYLAR	413-3113-057	1
C127	0.01uF 50V Z CERAMIC	413-3113-028	1
C128	20P 50V C CERAMIC	413-3113-034	1
C129	20P 50V C CERAMIC	413-3113-034	1
C130	0.1uF 25V Z CERAMIC	413-3113-035	1
C132	47uF/16V ELECT.	413-KT350-085	1
C133	0.01uF 50V Z CERAMIC	413-3113-028	1
C134	220PF 50V K CERAMIC	413-3113-032	1
C135	5P 50V C CERAMIC	413-KT350-092	1
C136	0.047uF 50V Z CERAMIC	413-3113-033	1
C137	0.047uF 50V Z CERAMIC	413-3113-033	1
C138	470PF 50V K CERAMIC	413-3113-036	1
C139	0.1uF 50V J MYLAR	413-KT350-089	1
C140	0.068uF 50V J MYLAR	413-3113-061	1
C141	470PF 50V K CERAMIC	413-3113-036	1
C142	0.47uF/50V BP ELECT.	413-KT350-095	1
C143	47uF/16V ELECT.	413-KT350-085	1
C146	10uF/25V ELECT.	413-3113-052	1
C147	100uF/10V ELECT.	413-3113-046	1
C148	0.01uF 50V K CERAMIC	404-3113-028	1
C149	0.047uF 50V Z CERAMIC	413-3113-033	1
C150	0.047uF 50V Z CERAMIC	413-3113-033	1
C151	10PF 50V J CERAMIC	413-3113-039	1
C152	2P 50V C CERAMIC	413-KT350-091	1
C153	0.0022uF 50V J MYLAR	413-3113-059	1
C154	0.0022uF 50V J MYLAR	413-3113-059	1
C155	0.012uF 50V J MYLAR	413-3113-060	1
C156	0.012uF 50V J MYLAR	413-3113-060	1
C157	1uF/50V BP ELECT.	413-KT350-094	1
C158	33PF 50V J CERAMIC	413-3113-029	1
C159	33PF 50V J CERAMIC	413-3113-029	1
C161	0.1uF 25V Z CERAMIC	413-3113-035	1

C162	1uF/50V ELECT.	413-3113-049	1
C163	4.7uF/50V ELECT.	413-3113-050	1
C164	220uF/6.3V ELECT.	413-3113-051	1
C165	0.1uF 25V Z CERAMIC	413-3113-035	1
C167	47uF/16V ELECT.	413-KT350-085	1
C168	47uF/16V ELECT.	413-KT350-085	1
C171	0.039uF 50V J MYLAR	413-3113-062	1
C172	0.039uF 50V J MYLAR	413-3113-062	1
C173	4.7uF/50V ELECT.	413-3113-050	1
C174	4.7uF/50V ELECT.	413-3113-050	1
C175	0.0068uF 50V J MYLAR	413-3113-068	1
C176	0.0068uF 50V J MYLAR	413-3113-068	1
C177	0.0022uF 50V J MYLAR	413-3113-059	1
C178	0.0022uF 50V J MYLAR	413-3113-059	1
C179	4.7uF/50V ELECT.	413-3113-050	1
C180	4.7uF/50V ELECT.	413-3113-050	1
C181	0.0033uF 50V J MYLAR	413-1410-097	1
C182	0.0033uF 50V J MYLAR	413-1410-097	1
C183	100uF/10V ELECT.	413-3113-046	1
C184	10uF/25V ELECT.	413-3113-052	1
C187	47uF/16V ELECT.	413-KT350-085	1
C189	47uF/16V ELECT.	413-KT350-085	1
C190	47uF/16V ELECT.	413-KT350-085	1
C191	47uF/16V ELECT.	413-KT350-085	1
C192	47uF/16V ELECT.	413-KT350-085	1
C194	0.01uF 50V Z CERAMIC	413-3113-028	1
C197	0.047uF 50V Z CERAMIC	413-3113-033	1
C198	220uF/16V ELECT.	413-KT300-102	1
C199	220uF/16V ELECT.	413-KT300-102	1
C200	47uF/16V ELECT.	413-KT350-085	1
R101	1K J 1/6W CARBON	412-3113-078	1
R102	10K J 1/6W CARBON	412-3113-068	1
R103	22K J 1/6W CARBON	412-3113-088	1
R104	5.6K J 1/6W CARBON	412-3113-044	1
R105	10K J 1/6W CARBON	412-3113-068	1
R106	150K J 1/6W CARBON	412-3113-046	1
R107	100K J 1/6W CARBON	412-3113-047	1
R108	2.2K J 1/6W CARBON	412-3113-048	1
R109	1M J 1/6W CARBON	412-3113-079	1
R110	270 J 1/6W CARBON	412-3113-049	1
R113	12K J 1/6W CARBON	412-3113-051	1
R114	39K J 1/6W CARBON	412-3113-052	1
R115	15K J 1/6W CARBON	412-3113-053	1
R116	39K J 1/6W CARBON	412-3113-052	1
R117	27K J 1/6W CARBON	412-3113-054	1
R118	100K J 1/6W CARBON	412-3113-047	1
R120	82K J 1/6W CARBON	412-KT300-105	1
R121	82K J 1/6W CARBON	412-KT300-105	1
R122	15K J 1/6W CARBON	412-3113-053	1
R127	3.3K J 1/6W CARBON	412-3113-057	1
R128	4.7K J 1/6W CARBON	412-3113-055	1
R129	220 J 1/6W CARBON	412-3113-058	1
R130	22K J 1/6W CARBON	412-3113-059	1
R131	1K J 1/6W CARBON	412-3113-078	1
R132	2.2K J 1/6W CARBON	412-3113-048	1
R133	15K J 1/6W CARBON	412-3113-053	1
R134	100K J 1/6W CARBON	412-3113-047	1
R136	100K J 1/6W CARBON	412-3113-047	1
R137	22K J 1/6W CARBON	412-3113-059	1
R138	22K J 1/6W CARBON	412-3113-059	1
R139	10K J 1/6W CARBON	412-3113-068	1

R141	10K J 1/6W CARBON	412-3113-068	1
R143	33K J 1/6W CARBON	412-3113-045	1
R144	100 J 1/6W CARBON	412-3113-060	1
R145	18K J 1/6W CARBON	412-3113-061	1
R146	120K J 1/6W CARBON	412-3113-062	1
R147	270K J 1/6W CARBON	412-3113-077	1
R148	270K J 1/6W CARBON	412-3113-077	1
R149	47K J 1/6W CARBON	412-3113-062	1
R150	22K J 1/6W CARBON	412-3113-059	1
R151	22K J 1/6W CARBON	412-3113-059	1
R152	5.6K J 1/6W CARBON	412-3113-044	1
R153	27K J 1/6W CARBON	412-3113-054	1
R154	330K J 1/6W CARBON	412-3113-064	1
R156	4.7 J 1/6W CARBON	412-3113-066	1
R157	4.7 J 1/6W CARBON	412-3113-066	1
R159	270K J 1/6W CARBON	412-3113-077	1
R160	47K J 1/6W CARBON	412-3113-062	1
R161	22K J 1/6W CARBON	412-3113-059	1
R162	1.2K 1/6W CARBON		1
R165	22K J 1/6W CARBON	412-3113-059	1
R166	22K J 1/6W CARBON	412-3113-059	1
R167	6.8K J 1/6W CARBON	412-3113-069	1
R168	2.2K J 1/6W CARBON	412-3113-048	1
R169	22K J 1/6W CARBON	412-3113-059	1
R170	10K J 1/6W CARBON	412-3113-068	1
R171	180K J 1/6W CARBON	412-3113-074	1
R173	4.7 J 1/6W CARBON	412-3113-066	1
R174	4.7 J 1/6W CARBON	412-3113-066	1
R175	2.2 J 1/6W CARBON	412-3113-065	1
R176	2.2 J 1/6W CARBON	412-3113-065	1
R177	10K J 1/6W CARBON	412-3113-068	1
R178	47K J 1/6W CARBON	412-3113-062	1
R179	680 J 1/6W CARBON	412-3113-070	1
R180	56K J 1/6W CARBON	412-3113-071	1
R181	560K J 1/6W CARBON	412-3113-072	1
R182	560K J 1/6W CARBON	412-3113-072	1
R183	100K J 1/6W CARBON	412-3113-047	1
R184	100K J 1/6W CARBON	412-3113-047	1
R187	470K J 1/6W CARBON	412-KT300-108	1
R188	220K J 1/6W CARBON	412-3113-050	1
R191	100K J 1/6W CARBON	412-3113-047	1
R192	180K J 1/6W CARBON	412-3113-074	1
R193	120K J 1/6W CARBON	412-3113-062	1
R194	120K J 1/6W CARBON	412-3113-062	1
R195	2.7K J 1/6W CARBON	412-3113-073	1
R196	10K J 1/6W CARBON	412-3113-068	1
R197	3.3K J 1/6W CARBON	412-3113-057	1
R198	10K J 1/6W CARBON	412-3113-068	1
R199	10K J 1/6W CARBON	412-3113-068	1
R200	1M J 1/6W CARBON	412-3113-079	1
R201	22K J 1/6W CARBON	412-3113-059	1
R202	680 J 1/6W CARBON	412-3113-070	1
R204	100 J 1/6W CARBON	412-3113-060	1
R205	1.8 J 1/6W CARBON	412-KM300-117	1
R206	4.7 J 1/6W CARBON	412-3113-066	1
R207	1K J 1/6W CARBON	412-3113-078	1
R208	1K J 1/6W CARBON	412-3113-078	1
R211	390 J 1/6W CARBON	412-3113-076	1
R212	390 J 1/6W CARBON	412-3113-076	1
R213	22K J 1/6W CARBON	412-3113-059	1
R214	22K J 1/6W CARBON	412-3113-059	1

R215	470 J 1/6W CARBON	412-3113-056	1
R216	470 J 1/6W CARBON	412-3113-056	1
R217	47K J 1/6W CARBON	412-3113-062	1
R218	47K J 1/6W CARBON	412-3113-062	1
R219	1.8K J 1/6W CARBON	412-3113-075	1
R220	1.8K J 1/6W CARBON	412-3113-075	1
R221	47K J 1/6W CARBON	412-3113-062	1
R222	47K J 1/6W CARBON	412-3113-062	1
R223	10K J 1/6W CARBON	412-3113-068	1
R224	10K J 1/6W CARBON	412-3113-068	1
R225	100K J 1/6W CARBON	412-3113-047	1
R226	100K J 1/6W CARBON	412-3113-047	1
R227	1K J 1/6W CARBON	412-3113-078	1
R228	1K J 1/6W CARBON	412-3113-078	1
R229	6.8K J 1/6W CARBON	412-3113-069	1
R230	6.8K J 1/6W CARBON	412-3113-069	1
R231	100K J 1/6W CARBON	412-3113-047	1
R233	150 J 1/4W CARBON	412-KT350-100	1
R234	470 J 1/6W CARBON	412-3113-056	1
R235	2.2K J 1/6W CARBON	412-3113-048	1
R236	47K J 1/6W CARBON	412-3113-062	1
R237	22K J 1/6W CARBON	412-3113-059	1
R240	470 J 1/6W CARBON	412-3113-056	1
R242	22 J 1/6W CARBON	412-KT350-099	1
R243	22 J 1/6W CARBON	412-KT350-099	1
R251	1K J 1/6W CARBON	412-3113-078	1
R252	1K J 1/6W CARBON	412-3113-078	1
R253	2.2K J 1/6W CARBON	412-3113-048	1
R254	10K J 1/6W CARBON	412-3113-048	1
R255	10K J 1/6W CARBON	412-3113-068	1
R256	470 J 1/6W CARBON	412-3113-056	1
R260	330 J 1/6W CARBON	412-KM300-118	1
R261	2.2K J 1/6W CARBON	412-3113-048	1
R262	220 J 1/6W CARBON	412-3113-058	1
R264	4.7 J 1/6W CARBON	412-3113-066	1
R265	470 J 1/6W CARBON	412-3113-056	1
D101	1SV103	414-3113-004	1
D102	1SS132	414-3113-005	1
D103	1SS132	414-3113-005	1
D104	ZD 7.5V	414-KT350-012	1
D105	1SS132	414-3113-005	1
D106	1SS132	414-3113-005	1
D107	1SS132	414-3113-005	1
D108	1SS132	414-3113-005	1
D113	ZD 7.5V	414-KT350-012	1
D114	1SS132	414-3113-005	1
D115	ZD 7.5V	414-KT350-012	1
D116	1SS132	414-3113-005	1
D117	1SS132	414-3113-005	1
D118	1SS132	414-3113-005	1
D119	1SS132	414-3113-005	1

CONTROL P.C.B. ASSY

(40)	CONTROL P.C.B. ASSY	704-KM510A-735	1
	CONTROL P.C.B.	405-KM500-102	1
	LIGHT BAR	100-KM300-555	1
	LAMP HOLDER	300-KM300-197	2
W301	CONNECTOR 4P ASSY	404-KM500-177	1
W302	CONNECTOR 10P ASSY	404-3113-060	1
W303	CONNECTOR 2P ASSY	404-KM500-178	1
R301	47K J 1/6W	412-3113-063	1
R302	51K J 1/6W	412-KM300-116	1
R303	330 J 1/6W	412-KM300-118	1
C301	10uF/25V, M ELECT.	413-3113-052	1
C302	47uF/16V, M ELECT.	413-KT350-085	1
C303	470P K CERAMIC	413-3113-036	1
LCD301	LIQUID CRYSTAL DISPLAY	410-KM500-029	1
D301	DIODE 1SS132	414-3113-005	1
D302	DIODE 1SS132	414-3113-005	1
D303	DIODE 1SS132	414-3113-005	1
D304	DIODE 1SS132	414-3113-005	1
D305	DIODE 1SS132	414-3113-005	1
D306	DIODE 1SS132	414-3113-005	1
D307	LED 5x2mm RED	410-KM500-043	1
SW301	KEY BOARD SWITCH (PLAY/PAUSE)	403-2002-009	1
SW302	KEY BOARD SWITCH (STOP)	403-2002-009	1
SW303	KEY BOARD SWITCH (F.SKIP)	403-2002-009	1
SW304	KEY BOARD SWITCH (B.SKIP)	403-2002-009	1
SW305	KEY BOARD SWITCH (FF)	403-2002-009	1
SW306	KEY BOARD SWITCH (FB)	403-2002-009	1
SW307	KEY BOARD SWITCH (REPEAT)	403-2002-009	1
SW308	KEY BOARD SWITCH (PROGRAM)	403-2002-009	1
SW311	KEY BOARD SWITCH (RANDOM)	403-2002-009	1
SW312	KEY BOARD SWITCH (TIME)	403-2002-009	1
SW322	KEY BOARD SWITCH (DISC 1)	403-2002-009	1
SW323	KEY BOARD SWITCH (DISC 2)	403-2002-009	1
SW324	KEY BOARD SWITCH (DISC 3)	403-2002-009	1
SW325	KEY BOARD SWITCH (DISC 4)	403-2002-009	1
SW326	KEY BOARD SWITCH (DISC 5)	403-2002-009	1
IC301	LC7582A	417-KM300-039	1
		410-KM300-030	2

LIGHT BREAKER ASSY

(68)	LIGHT BREAKER ASSY	704-KM500-735-1	1
	LIGHT BREAKER P.C.BOARD	405-KM500-102-1	1
D401	PHOTO INTERRUPTER GP1S53	417-KM300-038	1
W401	4P CONNECTOR ASSY	404-KM500-176	1

COMPO-425(Z)/435(Z)/445(Z)
APPEARANCE MISCELLANEOUS PARTS LIST

NO	Description	Parts NO
1	Dust Cover Compo 445Z Only	100-KM500-634
2	CD Player Ass'y Compo 445Z Only	CDKM87-01
3	Coil Drum	H1733600005
4	CD Display PCB	N14PCB*1915
5	Front Panel Compo 425/435/445 Only	H04317J0017
6	Display Cover	H04317J0017
7	CD Lamp PCB	N14PCB**1916
8	Main Cabi Compo 425/435 Only	H01317J0025
8	Main Cabi Compo 445 Only	H01317J0039
8	Side Panel R Compo 425/435 Only	H03317J0032
8	Side Panel L Compo 425/435 Only	H03317J0033
9	Tapping SCrew	S0127500062
10	Machine Screw & Washer	S01104H3022
11	Table Load Ass'y	CDK87-05
12	Front Washer	S04128*0810
13	CD Door	H15317J0005
14	Cushion Rubber	CDK3000TB06
15	CD Collar	H2776200016
16	Taptite Screw	S01110*4008
17	Tapping Screw	S01302*3018
18	CD Main PCB	CDK3000TB02
19	Power Trans Compo 425/435 Only	N80PT**3220-1
19	Power Trans Compo 425Z/435Z Only	N80PT**6220-1
19	Power Trans Compo 445 Only	N80PT**3232A1
19	Power Trans Compo 445Z Only	N80PT***6230A1
20	Machine Screw Spring & Washer	S01105*4008
21	Panel Holder L	H10317J0041
22	Panel Holder R	H10317J0042
23	Front Panel Bracket L	H1029510005
24	Front Panel Bracket R	H1029510004
25	Bottom Cabi Compo 425/435 Only	H02317J0026
25	Bottom Cabi AC115/230 Only	H02317J0049
26	Foot X 4	S0526030042
27	Tapping SCrew	S10302*3010
28	Jack Plate	H07283L0049
29	Jack Holder	H1026500056
30	Tapping Screw	S01301*3008
31	Speaker Jack PCB	N14PCB*1775D
32	Back Board Compo 425/435 Only	H02317J0034A
35	Gead Sink	H34313I0027
36	Tapping Screw & Washer	S01302*3030

37	PCB Holder B		H10317J0023
38	Tapping SCrew		S01301*3010
39	Deck Ass'y		CDS83WFC-07
40	PCB Holder A		H10317J0022
41	Amp PCB		N14PCB*1917
42	Display Holder R		H10317J0021
43	Tuner PCB N14PCB*1		N14PCB*1711
44	Display Holder L		H10317J0020
45	Mech Button	X 10	H11313I0023
46	Mech Button A		H11313I0024
47	Jack Bracket		H15267P0035
48	PCB Holder C		H10317J0024
49	Headphone PCB		N14PCB*884A
50	Machine Screw		S01101*3008
51	REC LED PCB		N14PCB*1918
52	Power SW		N77PUS*116
53	Power Knob		H1129150009
54	Band Key		H11317J0011
55	LED Spacer		N97CW**512
56	Counter		N92CTR*0049
57	Function Key		H11317J0009
58	Memory Key		H11317J0010
59	EQ Function		N14PCB*1921
60	SW Holder		H10317J0018
61	Speed SW PCB		N14PCB*1919
62	CD Key C		H11317J0016
63	CD Key B		H11317J0015
64	CD Panel	Compo 425/435 Only	H01317J0002
65	Dubbing Knob		H11267J0013A
66	Dump Gear		HH17188050012
67	Dump Cae		H0533000022
68	CD Key A		H11317J0014
69	Radio Window		H21317J0007
70	Sensor Window		H21317J0006
71	Cassette Case L		H05317J0003
72	Cassette Case R		H05317J0004
73	Play Stop Key		H11317J0013
74	VR Knob		H1176200006
75	Cassette Case Spring		S1836900015
76	Counter Holder		H10317J0019A
77	Dust Cover	Compo 435Z Only	100B800397
78	45 Adapter		100S300069
79	Player Ass'y	Compo 435Z Only	HPD650-01

COMPO-425(Z)/435(Z)/445(Z)

CDS-83WFC07 MECHANICAL PARTS LIST

NO	Description	Parts NO
1	Main Chassis	1-0083-101
2	FF Gear Shaft	1-0083-303
3	Auto Kick Arm Shaft	1-0080-305
4	Reel Shaft	1-0080-301
6	Pause Lever F	1-0083-123
7	Pause Cancel Spring	1-0083-413
8	Pause Lock Pin	1-0080-306
10	Pinch Roller Arm	1-0080-105
11	Pinch Roller Ass'y	1-0080-601
12	Pinch Roller Shaft B	1-0026-304
14	Button Case	1-0083-2-1
15	Flywheel Metal	1-0061-306
17	FR Arm	1-0083-202
18	FR Gear	1-0083-207
19	Center Gear	1-0083-208
20	Center Pulley	1-0083-210
21	Center Clutch Bush	1-0083-211
22	Center Shaft	1-0083-304
23	Center Clutch Spring	1-0083-401
24	Felt 7x13x0.8	1-0083-503
26	Fwd Reel	1-0083-204
27	Play Clutch Gear	1-0083-209
28	Reel Base	1-0083-212
29	Play Clutch Spring	1-0083-403
30	Flat 8x15x0.8	1-0083-502
31	Felt 5x9x0.5	1-0083-504
32	END Sensor	1-0083-213
33	Fwd BT Spring	1-0083-402
35	Play Arm	1-0083-214
36	Cam Gear	1-0083-215
37	Cam Gear Shaft	1-0083-302
38	Flywheel W	11-0083-223
39	Flywheel	1-0083-219
40	Flywheel Weight	1-0083-119
41	Flywheel Shaft	1-0080-310
42	Head Base B	1-0083-122
43	Head Base A	1-0083-102
44	Head Foot A	1-0080-212
45	Head foot B	1-0080-222
46	Button Bracket	1-0080-129

48	Button Shaft S	1-0061-311
51	Eject Arm	1-0083-103
52	Stop Lever F	1-0083-124
53	FF Lever F	1-0083-125
54	Rew Lever F	1-0083-126
55	Play Lever F	1-0083-127
56	SW OP Plate	1-0083-109
57	Lock Plate	1-0083-110
58	Rec Lever	1-0083-128
68	Pack Support Spring B	1-0080-128
69	Dubbing Connection Lever	1-0080-145
71	Auto Kick Arm	1-0083-203
72	Rew reel	1-0083-205
73	FF Gear	1-0083-206
74	Eject Hook B	1-0083-222
75	Cancel Arm S	1-0083-131
78	Rec Safety	1-0080-210
79	Pause Lock	1-0080-216
81	Pause Lock Stopper Bush	1-0080-219
82	Dubbing Operate Lever	1-0080-228
87	Eject Hook Spring	1-0083-404
88	Lock Plate Spring	1-0083-405
89	SW OP Lever Spring	1-0083-406
90	Play Arm Spring	1-0083-408
91	Rew BT Spring	1-0083-409
92	Auto Kick Arm Spring	1-0083-412
96	Azimuth Spring	1-0060-415
97	Pause Lock Spring	1-0061-411
98	Rec Lever Spring	1-0083-421
99	Pinch Roller Arm Spring	1-0080-406
100	Head Base Spring	1-0080-407
101	Button Lever Spring A	1-0083-415
102	Button Lever Spring B	1-0083-420
104	Operate Lever Spring	1-0080-418
105	E Head Adjuster SP	1-0080-429
106	Main Belt W2-1	1-0083-515
107	Sub Belt 1.3x46.3	1-0083-501
110	Leaf SW	1-0083-701
111	R/P Head	1-0083-701
112	E Head	1-0030-701
113	P/B Hesd	1-0080-702
115	Motor	1-0080-709

116	Motor Pulley	1-0080-318
117	Connection Holder B	1-0080-146
118	Motor Cushion	1-0080-511
121	PSW-S	1-0080-502
122	PSW-S	1-0080-504
123	LMW-S	1-0080-566
124	PSW	1-0083-505
125	Rew Reel Washer	1-0083-506
126	LMW-S	1-0083-509
128	Motor Fix Screw	1-0061-523
130	Lug Plate B-1	1-0080-541
132	+ Screw Bind DT	1-0080-517
133	+ Screw Bind Plax	1-0080-518
134	+ Screw Pan	1-0080-519
135	± Screw Special	1-0080-565
136	Operate Lever Fix Screw	1-0080-533
137	Connection Lever Fix Screw	1-0080-534
139	Unvibration Felt Mat A	1-0080-538
140	Unvibration Felt Mat B	1-0080-539
142	+ Screw DT	1-0080-521
143	+ Screw Pan	1-0080-523
144	Rec Push Plate	1-0083-172
145	Leaf SW	1-0012-702
146	Screw Pan	1-0080-537
147	Scvrew DEL-TITE	1-0080-517
148	+ Screw Pan	1-0080-522
*	Pinch Roller Arm Ass'y	1-0083-TBS001
*	FR Arm Ass'y	1-0083-TBS002
*	Clutch Ass'y	1-0083-TBS003
*	Play Arm Ass'y	1-0083-TBS004
*	Flywheel Ass'y (2X)	1-0083-TBS005

COMPO-435(Z)
HPD 650-01 PLAYER PARTS LIST

NO	Description	Parts NO
1	Tonearm Clip	100-F2001006
2	Gear	100-H530-051
3	45 Rpm Adapter	100-S300-069
4	Platter	100-D500-379
5	Hinge	100-D750-303
6	Insert Slider	100-D750-304
7	Cueing Lever	100-D750-305
8	Dust Cover	100-B800-397
9	Base	100-D600-415
10	Lifiter	100-D380-356
11	Plater Shaft	200-H460-015
12	Shaft Set	300-H460-023
13	Steel Plate	300-K680-119
14	Stylus	421-M208-007
15	Captridge W/O Stylus	402-M208-015
16	Stylus Cover	100-M208-151
17	Switch	403-H700-006
18	P C Board	405-H200-002
19	5P Socket	404-H200-007
20	Wire (red)	407-M400-029
21	Wire (white)	407-M407-030
22	Wire (Green)	407-M400-031
23	Wire (Blue)	407-M400-032
24	Nut	601-F200-001
25	Screw	602-F200-001
26	Pin	300-F200-008
27	Screw	602-F200-006
28	Screw	602-SL24F-096
29	Screw	602-H700-106
30	Pin	603-D750-100
31	Spring	603-MD02-107
32	Motor (SHR2R61)	401-D780-036
33	Belt	604-H400-008
34	UL Tube	605-F200-001
35	Washer	606-F200-002
36	Nylatron Washer	606-F200-003
37	Washer	606-F200-004
38	Terminal	300-H530-054

39	E-Ring (5m/m)	606-F200-012
40	CS Washer (3m/m)	606-F200-013
41	Stop Rotating Plate	100-H530-052
42	Stop Rotating Plate	100-H530-053
43	Micro Switch Box	100-H530-054
44	Press Plate For Micro SW	100-H530-055
45	Tonearm Rest	100-M100-078
46	Plate For Adjusting Srart Stop	100-D780-301
47	Tonearm	100-D380-355
48	Rotary Shaft Hood	100-D750-302
49	Pulley	100-D750-331
50	Pin	200-H530-021
51	Bronze For Micro SW (L)	300-H530-027
52	Bronze For Micro (M)	300-H530-028
53	Bronze For Micro SW (S)	300-H%30-029
54	Pendulum	300-H800-097
55	Spring	603-H530-022

CD MECHANISM PARTS LIST

1	Pick UP Ass'y	402-90V1-044
2	Limit SW	403-90V1-022
3	Feed Motor	401-90V1-041
4	Spindle Motor	401-90V1-042
5	Chassis Ass'y	300-90V1-185
6	Motor SW PCB	405-90V1-070
7	Gear Middle	100-90V1-501
8	Gear Motor	100-90V1-500
9	Gear Power	100-90V1-499
10	Plate Pack	100-90V1-502
11	Guide Bar	200-90V1-138
12	Guide Bak	200-90V1-139
13	Ass'y Turn Table	100-90V1-498
14	Screw Pan Pcs	602-90V1-127
15	Screw FLT Pcs	602-90V1-128
16	Special Screw	602-90V1-130
17	Connector 6P (JAE)	404-90V1-101

COMPO-445(Z)

CD CHANGER PARTS LIST

1	WHEEL	100-KM500-618	3
2	MOTOR PULLEY	100-KM500-619	1
3	ROLLER	100-KM500-620	1
4	PLATE FOR FIXING T/T	100-KM500-621	1
5	GEAR SET	100-KM500-622	1
6	DISDLPY WINDOW	100-KM510A-611	1
7	S.GEAR	100-KM500-624	1
8	GEAR	100-KM500-625	1
9	GEAR	100-KM500-626	1
10	MIDDLE GEAR	100-KM500-627	1
11	CORRECTING LEVER	100-KM500-628	1
12	CAM GEAR	100-KM500-629	1
13	BUTTON	100-KM510A-640	1
14	BUTTON	100-KM510A-641	1
15	DECORETING PLATE	100-KM500-632	1
16	SWING PLATE	100-KM500-633	1
17	DUST COVER	100-KM500-634	1
18	DISC COVER	100-KM500-635	1
19	BASE	100-KM500-636	1
20	TURNTABLE	100-KM500-637	1
21	HINGE	100-D750-303	2
22	INSERT SLIDE	100-D750-304	2
23	DISK HOLDER	100-KM300-519	1
24	FRONT PANEL	100-KM510A-639	1
25	SHAFT	200-KM500-162	1
26	SHAFT	603-D750-100	2
27	PIN	200-KM500-163	1
28	SWIVEL PLATE	300-MK7-189	1
29	BRACKET	300-KM500-213	1
30	STANLESS PLATE	300-MK7-186	2
32	PERSSING PLATE	300-MK7-187	1
33	GEAR SET	300-KM500-212	1
34	PLATE FOR STOPING ROTATE	300-KM500-211	1
35	MOTOR BOARD	300-KM500-211	1
36	MOTOR	401-KM300-045	1
37	MICRO SWITCH	403-KM500-031	1
39	MAIN P.C.B. ASSY	704-KM510A-736	1
40	CONTROL P.C.B. ASSY	704-KM510A-735	1
41	LED	410-KM300-031	1
42	DECORATING SHEET	501-KM500-607	1
43	LENS	501-KM500-608	1
44	SCREW (M3×8. TAPING)	602-2002-077	22
45	SCREW (M3×10 TAPING/W WASHER)	602-3113-122	3
46	SCREW (M3×9. TAPING/W WASHER)	602-SL24F-097	1
47	SCREW (M3×7. TAPING/W WASHER)	602-SL24F-096	2
48	SCREW (M2×4. MACHING)	602-DM11A-135	2
49	SCREW (M2.6×5. TAPING)	602-MK7-132	1
50	SPRING	603-KM500-146	1

51	SPRING	603-KM500-147	1
52	SPRING	603-D750-096	2
53	CUSHION RUBBER	604-KM500-071	2
54	BELT	604-KM500-069	1
55	CUSHION RUBBER	604-KM500-074	2
56	WHELL RING	604-KM500-070	3
58	WASHER	604-KM500-075	2
59	WASHER	606-MK7-069	1
60	DAMPER	612-KM300-014	1
61	MAGNETIC IRON	613-MK7-002	1
62	MECHANISM ASSY	704-90V1-568	1
63	STEEL PLATE	300-K680-119	4
64	SCREW	602-SL24F-099	4
65	MICRO SWITCH	403-SL24F-011	1
66	SCREW	602-KT300-136	1
68	PHOTO INTERRUPTER PCB ASSY	704-KM500-735-1	1
69	SHAFT	200-KM300-147	1
70	WHELL	100-KM300-516	1
71	WHELL RING	604-KM300-057	1
72	NUT	601-SL24F-010	1
73	SCREW	602-KM300-138	1
74	SCREW	602-SL24F-113	1
75	P.V.C. PLATE	501-KT300-123A	1
76	SHAFT CAP	100-MK7-449	4
77	SPRING	603-MK7-125	2
78	CUSHION RUBBER	603-MK7-055	4
79	SCREW	602-MK7-133	4
80	SPRING	603-KM500-154	2
	SCREW	602-KT300-123A	1

CD CHANGER MECHANISM ASS'Y ITEM (62) PARTS LIST

(62)	Mechanism Ass'y	704-90V1-568
1	Pick UP Ass'y (SF-91APCP)	402-90V1-044
2	Limit Switch	403-90V1-022
3	Feed Motor	401-90V1-041
4	Spindle Motor	401-90V1-042
5	Chassis Ass'y	300-90V1-185
6	Motor Switch PCB	405-90V1-070
7	Gear Middle	100-90V1-501
8	Gear Motor	100-90V1-500
9	Gear Power	100-90V1-499
10	Plate Rack	100-90V1-502
11	Guide Bar	200-90V1-144
12	Guide Bak	200-90V1-145
13	Assy Turn Table	100-90V1-498
14	Scr Pan PCS 1.7X2.5	602-90V1-127
15	Scr Flt PCS 2X5	602-90V1-128
16	Special Screw	602-90V1-130
17	Connector 6P (JAN)	404-90V1-101
18	Gear Shaft	200-90V1-143